

Fourth Quarter 2005 Groundwater Monitoring and Remediation System O&M Report

**Blue Lake Belting and Leather Works
Case No. 12012**

Prepared for:

Blue Lake Belting and Leather Works



Consulting Engineers & Geologists, Inc.

812 W. Wabash Ave.
Eureka, CA 95501-2138
707/441-8855

March 2006
097309



CONSULTING ENGINEERS & GEOLOGISTS, INC.

812 W. Wabash • Eureka, CA 95501-2138 • 707-441-8855 • Fax 707-441-8877 • info@shn-eureka.com

Reference: 097309

March 3, 2006

Mr. Mark Verhey
Humboldt County Division of Environmental Health
100 H Street, Suite 100
Eureka, CA 95501

Subject: Fourth Quarter 2005 Groundwater Monitoring and Remediation System O&M Report, Blue Lake Belting and Leather Works, 411 Railroad Avenue, Blue Lake, California; Case No. 12012

Dear Mr. Verhey:

The attached report presents the results of groundwater monitoring and remediation system operation and maintenance activities conducted during the fourth quarter 2005, at the Blue Lake Belting and Leather Works. Quarterly monitoring of wells MW-101 through MW-106 and LACO Associates well MW-3 occurred at the site on December 5, 2005. SHN Consulting Engineers & Geologists, Inc. (SHN) performed this work on behalf of Blue Lake Belting and Leather Works. Site monitoring activities at the Blue Lake Market, conducted by LACO Associates, during the fourth quarter 2005 occurred on December 1, 2005.

Please call me at 707-441-8855 if you have any questions.

Sincerely,

SHN Consulting Engineers & Geologists, Inc.

Mike Foget, P.E.
Senior Project Engineer

MKF/ADM:med:lms

Enclosure: 4th Quarter 2005 Monitoring Report
copy w/encl: Chuck Huntzinger, BLB&LW

Reference: 097309

Fourth Quarter 2005 Groundwater Monitoring and Remediation System O&M Report

**Blue Lake Belting and Leather Works
Case No. 12012**

Prepared for:

Blue Lake Belting and Leather Works

SH
Consulting Engineers & Geologists, Inc.
812 West Wabash Avenue
Eureka, CA 95501-2138
707-441-8855

March 2006



QA/QC: MKF____

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Abbreviations and Acronyms

<	denotes a value that is "less than" the method detection limit
kWhr	kilowatt hour
mg/L	milligrams per Liter
mg/L CaCO ₃	milligrams per Liter of Calcium Carbonate
mV:	millivolts
ppm	parts per million
psi	pounds per square inch
scfh	standard cubic feet per hour
ug/L	micrograms per Liter
BGS	Below Ground Surface
BLB&LW	Blue Lake Belting and Leather Works
BTEX	Benzene, Toluene, Ethylbenzene, and total Xylenes
DCO ₂	Dissolved Carbon Dioxide
DIPE	Diisopropyl Ether
DO	Dissolved Oxygen
EC	Electrical Conductivity
EPA	U.S. Environmental Protection Agency
ETBE	Ethyl Tertiary-Butyl Ether
LACO	LACO Associates
MTBE	Methyl Tertiary-Butyl Ether
MW-#	Monitoring Well-#
NA	Not Analyzed/Not Applicable/Not Available
NS	Not Sampled
OBS-#	Observation Well-#
ORP	Oxidation-Reduction Potential
SHN	SHN Consulting Engineers & Geologists, Inc.
SW-#	Sparge Well-#
TAME	Tertiary-Amyl Methyl Ether
TBA	Tertiary-Butyl Alcohol
TOC	Top of Casing
TPHG	Total Petroleum Hydrocarbons as Gasoline
UST	Underground Storage Tank

1.0 Introduction

This report presents the results of groundwater monitoring activities completed during the fourth quarter of 2005 at the Blue Lake Belting and Leather Works (BLB&LW). The site is located at 411 Railroad Avenue in Blue Lake, California (Figure 1). SHN Consulting Engineers & Geologists, Inc. (SHN) conducted the quarterly groundwater-monitoring event on December 5, 2005.

1.1 Background

The BLB&LW parcel (Figure 2) was previously used as an automobile service station with three underground fuel storage tanks located on site:

- One 650-gallon gasoline Underground Storage Tank (UST) is located beneath the floor of what is presently the BLB&LW shop area.
- One 1,000-gallon UST was located in the sidewalk along G Street.
- One 750-gallon UST was previously located along the fueling island (Subsurface Investigation Work Plan, Blue Lake Market, LACO, April 1992).

The 650-gallon UST passed a pressure test conducted by Precision Tank Testing Company, and, under approval from the Humboldt County Division of Environmental Health, was abandoned in-place and subsequently filled with concrete. This tank has since received regulatory closure and is not a part of the current site investigation.

1.2 Previous Site Activities

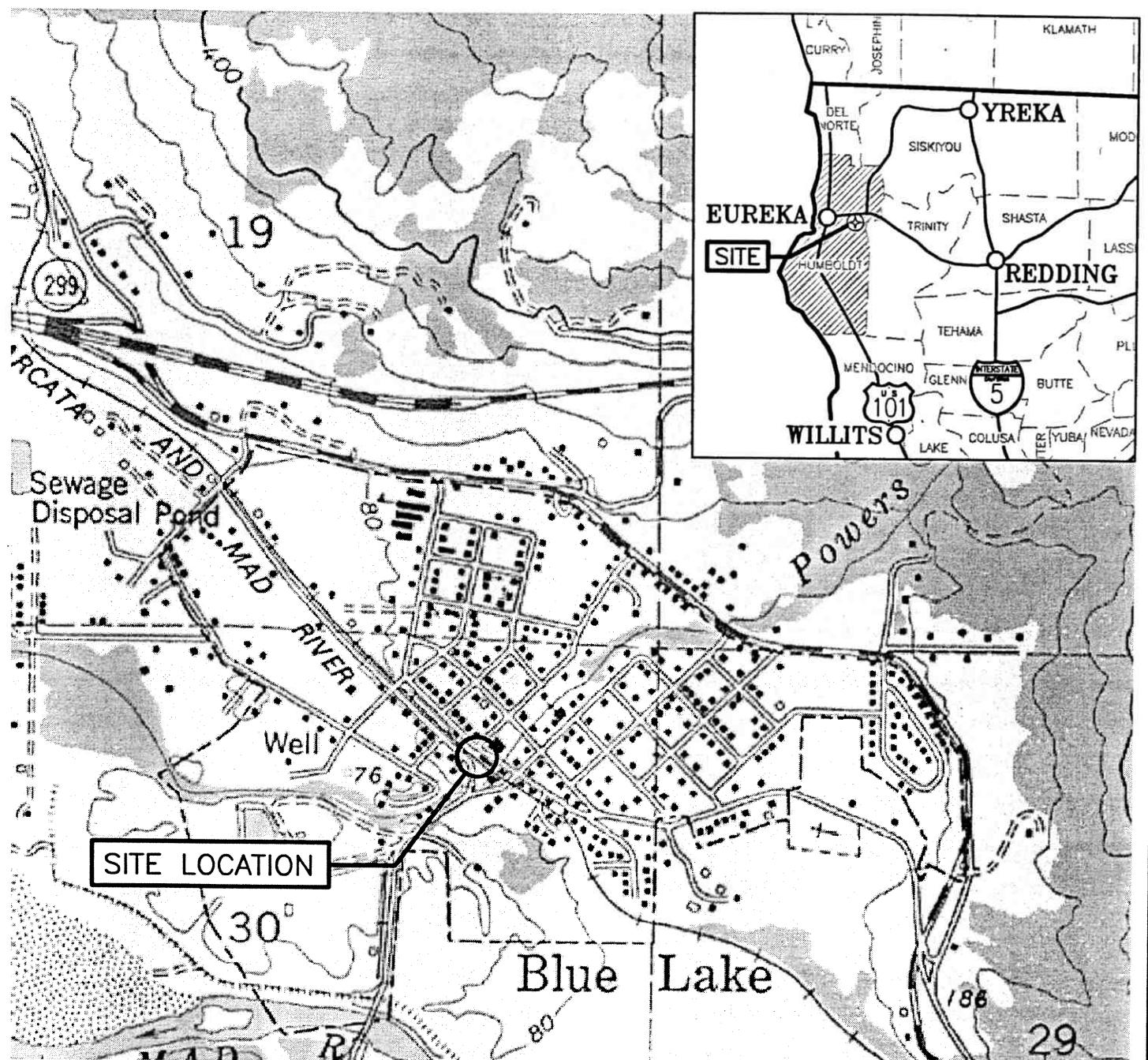
In January 1995, soil samples collected adjacent to the location of the former USTs indicated the presence of petroleum hydrocarbon constituents in soil. Subsequent site investigations and quarterly groundwater monitoring conducted at BLB&LW indicated that elevated levels of petroleum hydrocarbons were present in soil and groundwater in the vicinity of monitoring wells MW-103, MW-104, and MW-105 (SHN, 2000).

Since groundwater monitoring commenced in 1999, Methyl Tertiary-Butyl Ether (MTBE) has not been detected in any of the groundwater samples submitted for laboratory analysis. In addition, the former USTs were taken out of service prior to the time at which MTBE was commonly utilized in motor fuel. As such, laboratory analysis for this constituent was discontinued after the third quarter 2003 groundwater-monitoring event was completed.

In August 2003, SHN conducted an air sparge pilot test at the site. Based on the results of the pilot test, SHN recommended that an ozone sparge system be installed to remediate petroleum hydrocarbons in groundwater at the site (SHN, 2003).

In July 2004, SHN installed nine ozone sparge wells in addition to the single sparge well that was previously installed for the air sparge pilot test. Construction of the system has been completed and the ozone sparge system became operational on December 21, 2004.

Table 1 summarizes the well construction details of all wells on the site.

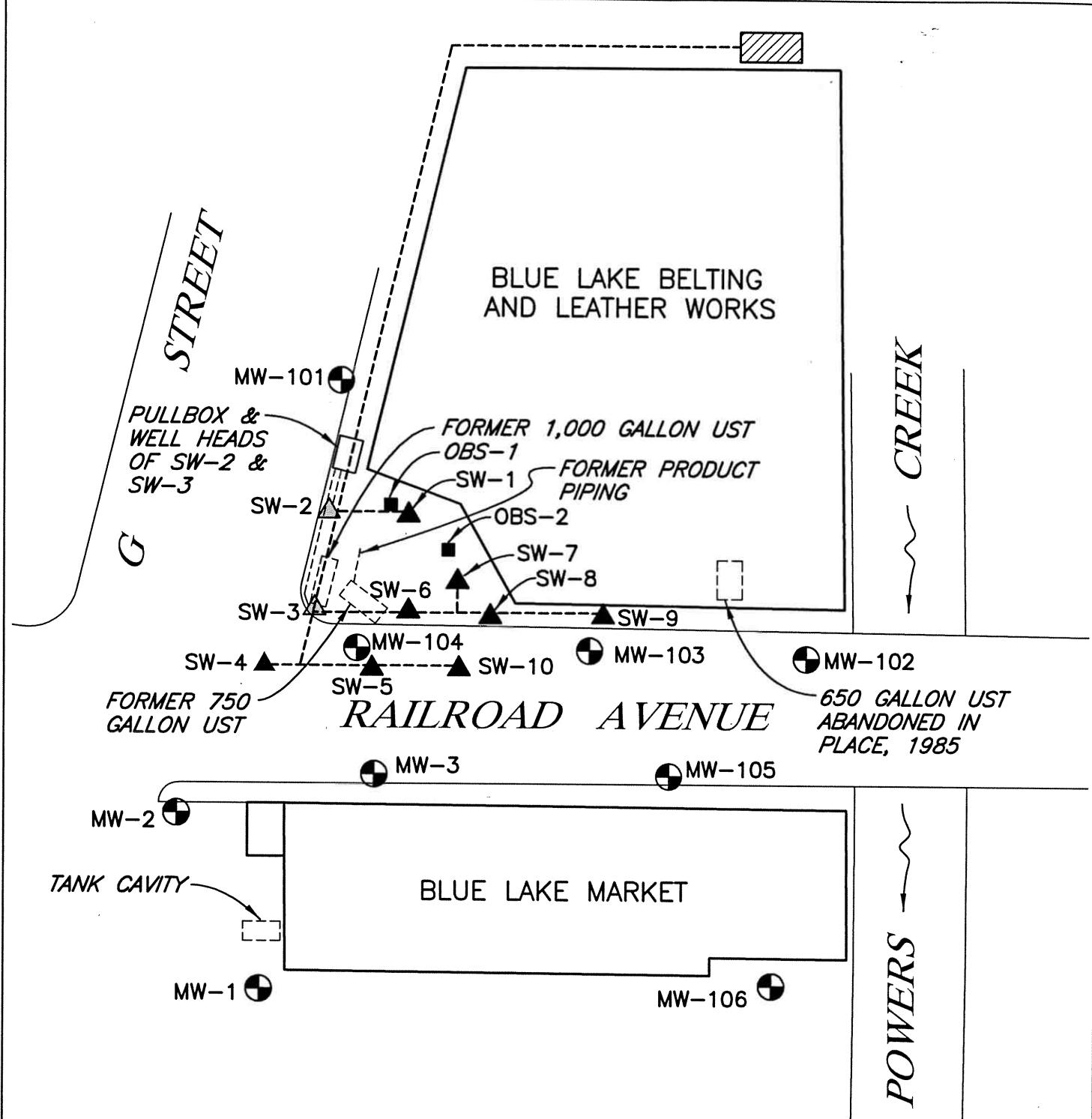


SOURCE: BLUE LAKE
USGS 7.5 MINUTE
QUADRANGLE

1" = 1000' ±

SHW Consulting Engineers & Geologists, Inc.	Blue Lake Belting and Leather Works Blue Lake, California	Site Location Map SHN 097309
	JUNE 2003	097309-LOCATION

Figure 1



EXPLANATION

- | | | | |
|--------|--|---|--|
| MW-101 | MONITORING WELL
LOCATION AND DESIGNATION |  | OZONE SPARGE TRAILER |
| SW-1 | SPARGE WELL
LOCATION AND DESIGNATION |  | OZONE SPARGE PIPING |
| OBS-1 | OBSERVATION WELL
LOCATION AND DESIGNATION |  | SW-2 SPARGE WELL LOCATION AND
DESIGNATION. SPARGE WELL
HEAD LOCATED UNDER SIDEWALK |
| | FORMER UST LOCATION |  | |

$$1'' = 30'$$

Table 1
Site Well Specifications
Blue Lake Belting and Leather Works, Blue Lake, California

Well ID	Total Depth (feet)	Screened Interval (feet BGS ¹)	Casing Diameter (inches)	Date Installed	Status	Operation
Monitoring Wells						
MW-101	15	5-15	2	10/27/99	In use	MW ²
MW-102	20	5-20	2	10/27/99	In use	MW
MW-103	19	6-19	2	10/27/99	In use	MW
MW-104	17	5-17	2	10/28/99	In use	MW
MW-105	15	5-15	2	10/28/99	In use	MW
MW-106	15	5-15	2	10/28/99	In use	MW
Sparge Wells						
SW-1	17	15-17	1	7/2/03	In use	Ozone Sparge
SW-2	19	17-19	1	7/6/04	In use	Ozone Sparge
SW-3	19	17-19	1	7/6/04	In use	Ozone Sparge
SW-4	18.9	16.9-18.9	1	7/6/04	In use	Ozone Sparge
SW-5	19	17-19	1	7/6/04	In use	Ozone Sparge
SW-6	19	17-19	1	7/6/04	In use	Ozone Sparge
SW-7	19	17-19	1	7/6/04	In use	Ozone Sparge
SW-8	19	17-19	1	7/6/04	In use	Ozone Sparge
SW-9	19	17-19	1	7/6/04	In use	Ozone Sparge
SW-10	18.7	16.7-18.7	1	7/6/04	In use	Ozone Sparge
Observation Wells						
OBS-1	10	5-10	1	7/2/03	In use	Observation
OBS-2	10	5-10	1	7/2/03	In use	Observation
1. BGS: Below Ground Surface			2. MW: Monitoring Well			

SHN is continuing quarterly groundwater monitoring in wells MW-101 through MW-106. Additionally, since the first quarter of 2005, SHN has assumed quarterly groundwater monitoring of LACO well MW-3 (Blue Lake Market). These wells are monitored for Total Petroleum Hydrocarbons as Gasoline (TPHG); Benzene, Toluene, Ethylbenzene and Xylenes (BTEX); and select field measured indicators of bioremediation.

2.0 Field Activities

As part of the groundwater-monitoring program, monitoring wells MW-101 through MW-106 and LACO well MW-3 were purged and sampled at the BLB&LW site. All work was conducted in accordance with the approved work plan and site safety plan developed for this project. Monitoring activities at the site are coordinated in conjunction with the current groundwater investigation at the nearby Blue Lake Market site, performed by LACO Associates (LACO) (wells

MW-1 and MW-2, Figure 2). In conjunction with the current investigation at the BLB&LW, LACO performed groundwater monitoring at the Blue Lake Market on December 1, 2005, during the fourth quarter 2005, and that information is included in this report.

2.1 Monitoring Well Sampling

On December 5, 2005, SHN conducted quarterly groundwater monitoring of wells MW-101 through MW-106 and LACO well MW-3. Prior to purging, each groundwater monitoring well was measured for depth to water, checked for the presence of floating product, and monitored for Dissolved Oxygen (DO), Oxidation-Reduction Potential (ORP), and Dissolved Carbon Dioxide (DCO₂). DO and ORP were measured using portable instrumentation, and DCO₂ was measured using a field test kit.

Purging operations included bailing three casing volumes of water from each monitoring well. During purging, each well was monitored for Electrical Conductivity (EC), temperature, and pH using portable instrumentation. Each groundwater sample was collected using disposable polyethylene bailers and transferred into laboratory-supplied containers. The water samples were then labeled, stored in an iced cooler, and transported to the laboratory under proper chain-of-custody documentation. Field notes from the December 2005 groundwater-monitoring event are included in Appendix A.

2.2 Laboratory Analysis

All of the groundwater samples collected by SHN during the fourth quarter 2005 monitoring event were analyzed for the following:

- TPHG in accordance with U.S. Environmental Protection Agency (EPA) Method No. 5030/GCFID/8015B.
- BTEX in accordance with EPA Method No. 5030/8021B.

North Coast Laboratories, Ltd., a State of California-certified laboratory located in Arcata, California, conducted all analyses.

2.3 Equipment Decontamination Procedures

All monitoring and sampling equipment was cleaned prior to being transported to the site and prior to purging each well. All small equipment was cleaned using the triple wash system. The equipment was initially washed in a water solution containing Liquinox® cleaner, followed by a distilled water rinse, then by a second distilled water rinse.

2.4 Investigation-Derived Waste Management

All rinse water used for decontaminating field-sampling equipment and well purge water was contained in 50-gallon plastic drums. The water was then transported to the SHN purge water storage tank located at 812 West Wabash Avenue in Eureka, California, for temporary storage. Approximately 63 gallons of water were generated during the December 5, 2005, monitoring event,

and were discharged, under permit, to the City of Eureka Municipal Sewer System. A discharge receipt for the 63 gallons of water generated during the fourth quarter 2005 monitoring event is included in Appendix A.

3.0 Groundwater Monitoring Results

3.1 Hydrogeology

SHN collected depth to water measurements in the BLB&LW monitoring wells on December 5, 2005. These measurements are shown in Table 2. On December 1, 2005, LACO collected depth to water measurements from Blue Lake Market wells MW-1 and MW-2, which are located adjacent to BLB&LW site. The Top of Casing (TOC) elevation for each well was surveyed relative to the TOC elevation for Blue Lake Market well MW-1. During this monitoring event, groundwater flow beneath the BLB&LW site was to the south with an approximate gradient of 0.010. The groundwater elevation contours on December 5, 2005, are shown on Figure 3 (LACO wells MW-1 and MW-2 were not used in determining contours). Historic groundwater elevation data are presented in Appendix B, Table B-1.

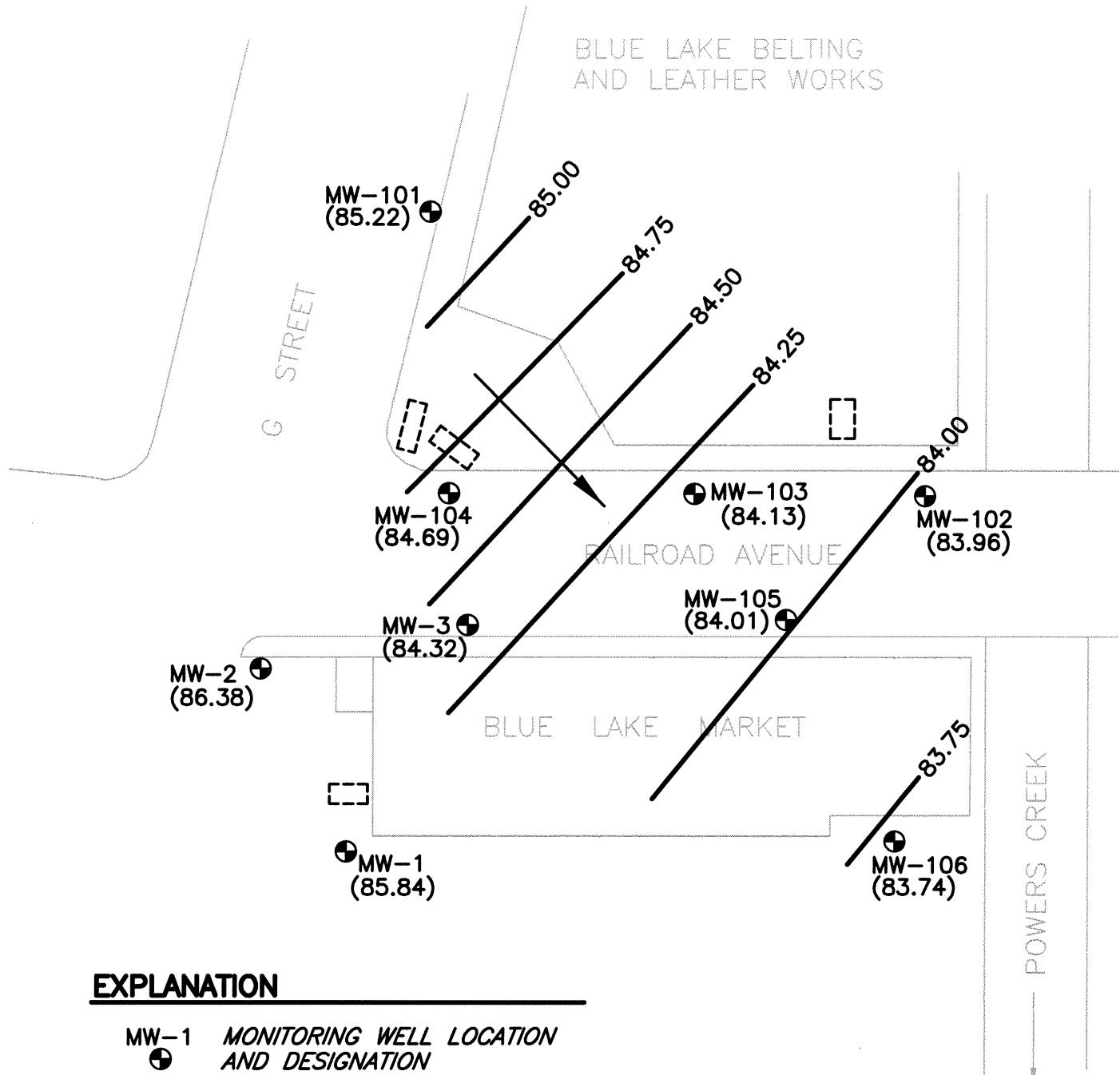
Table 2
Groundwater Elevations, December 5, 2005
Blue Lake Belting & Leather Works, Blue Lake, California

Sample Location	Top of Casing Elevation ¹ (feet)	Depth to Water ² (feet)	Groundwater Elevation ¹ (feet)
MW-101	92.27	7.05	85.22
MW-102	91.19	7.23	83.96
MW-103	91.57	7.44	84.13
MW-104	91.48	6.79	84.69
MW-105	91.32	7.31	84.01
MW-106	88.88	5.14	83.74
MW-1 ³	89.45	3.61	85.84
MW-2 ³	91.29	4.91	86.38
MW-3	91.63	7.31	84.32

1. All wells referenced to relative top of casing of Blue Lake Market well MW-1
2. Below top of casing
3. Blue Lake Market Wells MW-1 and MW-2 were gauged by LACO on 12/1/05.

3.2 Groundwater Analytical Results

The laboratory analytical results from the groundwater samples collected on December 5, 2005, from the BLB&LW groundwater monitoring wells and Blue Lake Market wells are summarized in Table 3. TPHG was detected in the groundwater samples from monitoring wells MW-103, MW-104, MW-105, MW-106, and LACO wells MW-1, MW-2, and MW-3 at concentrations ranging from 110 micrograms per Liter (ug/L) to 14,000 ug/L. Petroleum hydrocarbons were not detected in monitoring wells MW-101 and MW-102.



NOTE: MW-1 AND MW-2 WERE NOT USED IN CREATING CONTOURS

 Consulting Engineers & Geologists, Inc.	Blue Lake Belting and Leather Works Blue Lake, California	Groundwater Contours December 5, 2005
		SHN 097309
	FEBRUARY 2006	097309-GWC-DEC-05
		Figure 3

Table 3
Groundwater Analytical Results, December 5, 2005
Blue Lake Belting & Leather Works, Blue Lake, California
(in ug/L)¹

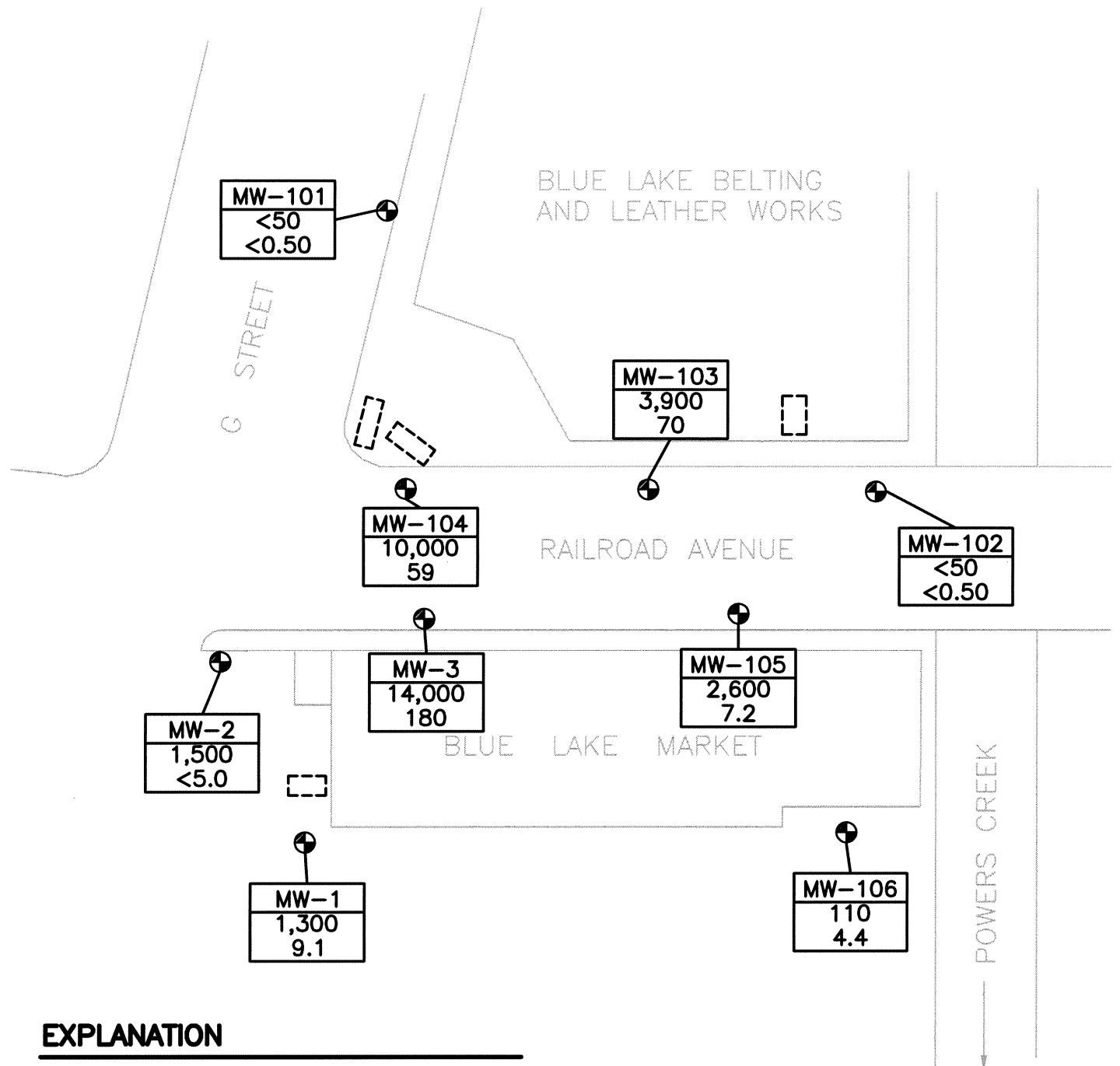
Sample Location	TPHG ²	Benzene	Toluene	Ethylbenzene	m,p-xylene	o-xylene
MW-101	<50 ³	<0.50	<0.50	<0.50	<0.50	<0.50
MW-102	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-103	3,900 ⁴	70	81	87	110	46
MW-104	10,000 ⁴	59	100	280	500	53
MW-105	2,600 ⁵	7.2	<70 ⁶	8.3	4.6	<3.5 ⁶
MW-106	110 ⁴	4.4	3.7	1.6	1.1	<0.50
Blue Lake Market Wells⁷						
MW-1 ⁷	1,300 ⁵	9.1	<15 ⁶	3.4	2.4	<4.0 ⁶
MW-2 ⁷	1,500 ⁴	<5.0 ⁶	6.9	63	160	7.0
MW-3	14,000 ⁴	180	1,600	480	1,400	500

1. ug/L: micrograms per Liter
2. TPHG: Total Petroleum Hydrocarbons as Gasoline
3. <: Denotes a value that is "less than" the method detection limit.
4. Sample appears to be similar to gasoline but certain peak ratios are not that of a fresh gasoline standard. The reported results represent the amount of material in the gasoline range.
5. Values include the reported gasoline components in addition to other peaks in the gasoline range.
6. Reporting limits were raised due to matrix interference.
7. Data from MW-1 and MW-2 provided by LACO Associates. Data from 12/1/05.

The concentrations of TPHG and benzene present in the groundwater monitoring wells on December 5, 2005, are shown on Figure 4. The complete laboratory analytical reports and corresponding chain-of-custody documentation are included in Appendix C. Historic groundwater analytical data are presented in Appendix B, Table B-2.

3.3 Groundwater Parameters

Three groundwater parameters (DO, DCO₂, and ORP) were measured using field instrumentation in groundwater monitoring wells MW-101 through MW-106 and MW-3 prior to sampling, and are summarized in Table 4. Historic groundwater parameters are presented in Appendix B, Table B-3. Table 4 indicates that mildly oxidizing conditions exist in the source area (MW-104).

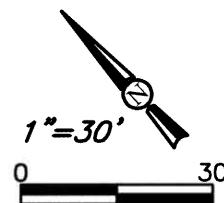


EXPLANATION

MONITORING WELL LOCATION

MW-106 MONITORING WELL DESIGNATION
 <50 TPHG ug/L
 <0.50 BENZENE ug/L

FORMER UST LOCATION



**NOTE: MW-1 AND MW-2 WERE
SAMPLED ON 12/1/05**

 Consulting Engineers & Geologists, Inc.	Blue Lake Belting and Leather Works Blue Lake, California	Summary of Groundwater Analytical Results, December 5, 2005 SHN 097309	
		FEBRUARY 2006	097309-GAR-DEC-05

Table 4
DO, DCO₂, and ORP Measurement Results, December 5, 2005
Blue Lake Belting & Leather Works, Blue Lake, California

Sample Location	DO ¹ (ppm) ²	DCO ₂ ³ (ppm)	ORP ⁴ (millivolts)
MW-101	7.81	20	264
MW-102	3.59	15	228
MW-103	2.25	40	224
MW-104	2.54	10	270
MW-105	1.61	80	274
MW-106	2.32	30	205
MW-3	1.75	30	259

1. DO: Dissolved Oxygen, measured with field instrumentation
 2. ppm: parts per million
 3. DCO₂: Dissolved Carbon Dioxide, measured with field instrumentation
 4. ORP: Oxidation-Reduction Potential, measured with field instrumentation

4.0 Remediation System Operation & Maintenance

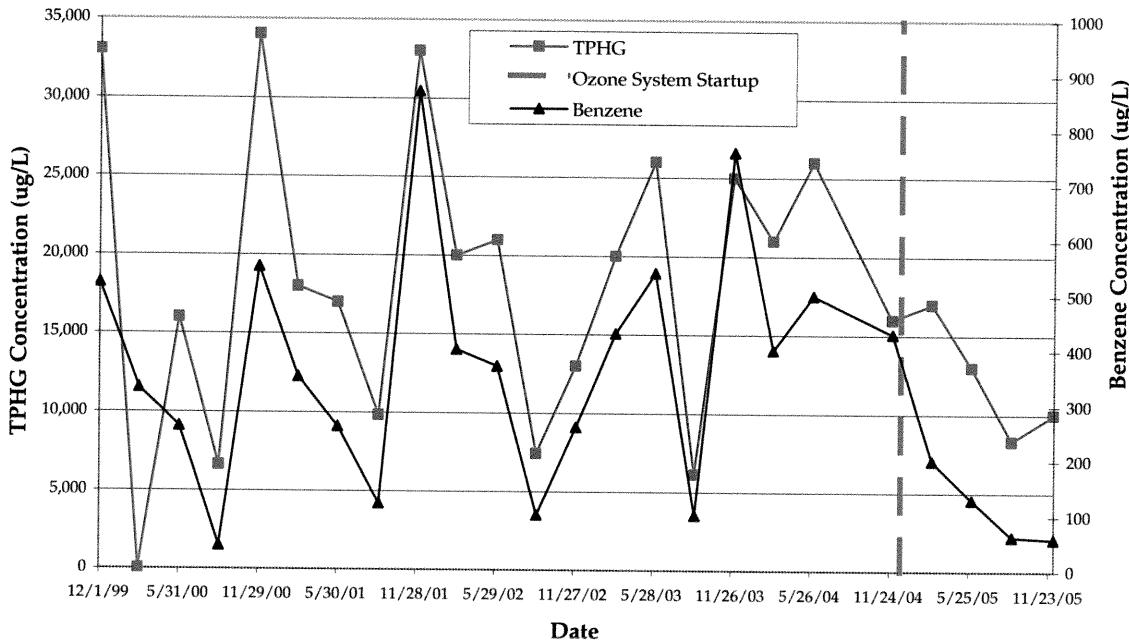
The ozone sparge system was started up on December 21, 2004, and has operated continually since. During the initial month of operation, the ozone sparge system was monitored weekly to ensure proper operation and adjustments were made as needed. After the initial one-month break-in period, site visits were conducted monthly. Ozone system operation and maintenance site visits will be conducted monthly for the remainder of the system's operation. Standard operation consists of monitoring the flows and pressures of various system components, checking the condition of wellheads, checking for leaks and wear on the ozone system, changing areas of ozone sparging based on groundwater monitoring results, and recording the system operating parameters. Standard maintenance consists of replacing air filters as needed and rebuilding air compressors as needed.

During the fourth quarter of 2005, site visits were conducted. The field notes are included in Appendix A. Historic ozone system monitoring results are presented in Appendix B, Table B-4.

5.0 Discussion and Recommendations

Information collected during this and previous site investigations continues to indicate that petroleum hydrocarbons are present in groundwater in the vicinity of site wells MW-103, MW-104, MW-105, and MW-106. The groundwater sample collected from well MW-104 had the highest concentrations of petroleum hydrocarbons. The concentrations of TPHG and benzene over time for groundwater monitoring well MW-104 are shown on Figure 5. This figure illustrates that TPHG and Benzene concentrations have steadily declined in the source area since the ozone sparge system start up.

Table 5
Total Petroleum Hydrocarbons as Gasoline Concentrations
Over Time for Monitoring Well MW-104
Blue Lake Belting and Leather Works, Blue Lake, California



SHN recommends that quarterly monitoring be continued in conjunction with the operation of the ozone sparge system. Information collected during this monitoring event and the ongoing monitoring program will be used to assess the effectiveness of the remediation system. The next sampling event at the site is scheduled for March 2006. SHN will continue to coordinate with LACO for groundwater monitoring activities.

6.0 References Cited

- LACO Associates. (April 1992). *Subsurface Work Plan, Blue Lake Market*. Eureka: LACO.
- SHN Consulting Engineers & Geologists, Inc. (September 8, 2000). *Corrective Action Plan, Blue Lake Belting and Leather Works, 411 Railroad Avenue, Blue Lake, California, LOP # 12012*. Eureka: SHN.
- . (November 24, 2003). *Remedial Action Pilot Study Report of Findings, Blue Lake Belting and Leather Works, Case No. 12012*. Eureka: SHN.

Appendix A
Field Notes



CONSULTING ENGINEERS & GEOLOGISTS, INC.

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DAILY FIELD REPORT

JOB NO

097309

Page 1 of 1

PROJECT NAME <i>Blue Lake Belting and Leather</i>	CLIENT/OWNER <i>Blue Lake Belting and Leather</i>	DAILY FIELD REPORT SEQUENCE NO
GENERAL LOCATION OF WORK <i>Blue Lake, CA.</i>	OWNER/CLIENT REPRESENTATIVE <i>Charles Hantzinger</i>	DATE <i>12.5.05</i> DAY OF WEEK <i>MOR</i>
TYPE OF WORK <i>Quarterly Sampling</i>	WEATHER	PROJECT ENGINEER/ SUPERVISOR <i>Mike Foget</i>
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN <i>David R. Paine</i> <i>A. Melody</i>
DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING		
930	Arrived at Site, opened all wells, started taking DO & Water Level readings.	
1115	Began purging MW-104 with a disposable bailer, all purge water was caught in a graduated 5-gal bucket.	
1155	Sampled MW-104 with it's bailer	
1200	Began purging MW-101 with a disposable bailer, all purge water was caught in 5-gal bucket.	
1230	Sampled MW-101	
1238	Began purging MW-102 with a disposable bailer, all purge water was caught in 5-gal bucket.	
1305	Sampled MW-102 with its disposable bailer.	
1311	Began purging MW-105 with a disposable bailer, All purge water was caught in 5-gal bucket.	
1335	Sampled MW-105 with it's bailer.	
1345	Began purging MW-103 with a disposable bailer, All purge water was caught in 5-gal bucket.	
1415	Sampled MW-103 with its bailer.	
1425	Began purging M-3 with a disposable bailer, All purge water was caught in 5-gal bucket.	
1450	Sampled M-3 with its bailer.	
1500	Began purging MW-104 with a disposable bailer, All purge water was caught in 5-gal bucket.	
1525	Sampled MW-104 with it's bailer.	
1530	All well lids & caps locked & closed.	
1540	OFF SITE TO NCL.	
Note: All decon + purge water was transferred to 2 50-gal plastic drums, and transported to SHN's 1,000 gal. PWST located @ 812 W. Wabash Ave, Eureka, CA. (63 gallons total.)		
COPY GIVEN TO:	REPORTED BY:	<i>A. Melody</i>



CONSULTING ENGINEERS & GEOLOGISTS, INC.

812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-enar.com

Groundwater Elevations

Job No.: 097309

Name: A. Melody

Client: CHARLES HUNTZINGER

Date: 12/5/05

Location: BLUE LAKE, CA

Weather: clear



CONSULTING ENGINEERS & GEOLOGISTS, INC.

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EQUIPMENT CALIBRATION SHEET

Name: A. Melody

Project Name: Blue Lake Belting & Leather Works

Reference No.: 097309

Date: 12.5.05

Equipment: pH & EC PID GTCO₂ GTLEL
 Turbidity Other DO meter YS195

Description of Calibration Procedure and Results:

pH & EC meter calibrated using a 2 buffer method with 7.01 & 4.01, the EC set at 1413 µS.

DO meter is self calibrating with altitude set at 1,



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Water Sampling Data Sheet

Project Name:	<u>Blue Lake Boiling and Leather</u>	Date/Time:	<u>12-5-05</u>
Project No.:	<u>097309</u>	Sampler Name:	<u>David R. Painter A. Melady</u>
Location:	<u>Blue Lake, CA</u>	Sample Type:	<u>Ground water</u>
Well #:	<u>MW-101</u>	Weather	<u>clear</u>
Hydrocarbon Thickness/Depth (feet):	<u>NA</u>	Key Needed:	<u>YES Dolphin</u>

$$\begin{array}{ccccccccc} \text{Total Well Depth} & & \text{Initial Depth to} & = & \text{Height of Water} & \times & 0.163 \text{ gal/ft (2-inch well) /} \\ (\text{feet}) & & \text{Water (feet)} & = & \text{Column (feet)} & \times & 0.653 \text{ gal/ft (4-inch well)} \\ \boxed{13.00} & - & \boxed{7.05} & = & \boxed{5.95} & \times & 0.163 & = & \boxed{0.97 \times 3 = 2.91} \end{array}$$

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1045	<u>7.81</u>	—	—	—	—	—	0 gal.	
1211	20	264	—	—	—	—	0.25 gal.	
1215	↓			149	59.2	6.12	1.0 gal.	
1218	No Flow			137	59.4	6.08	2.0 gal.	
1224	than cell			145	59.1	6.12	3.0 gal.	
1230	Sample Time							

Purge Method: Hand bailTotal Volume Removed: 3.0 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-101	3 - 40ml vials	YES / HCL	NCL	TPHG / BTEX

Well Condition: Good

Remarks:

Recharged to 7.02' at sampling time (1230)



Water Sampling Data Sheet

Project Name:	<u>Blue Lake Belting and Leather</u>	Date/Time:	<u>12-5-05</u>
Project No.:	<u>097309</u>	Sampler Name:	<u>David R. Parise A. McElroy</u>
Location:	<u>Blue Lake, CA</u>	Sample Type:	<u>Ground water</u>
Well #:	<u>MW-102</u>	Weather	<u>clear</u>
Hydrocarbon Thickness/Depth (feet):	<u>NA</u>	Key Needed:	<u>YES</u> <u>Dolphin</u>

$$\begin{array}{l} \text{Total Well Depth} \\ \text{(feet)} \end{array} - \begin{array}{l} \text{Initial Depth to} \\ \text{Water (feet)} \end{array} = \begin{array}{l} \text{Height of Water} \\ \text{Column (feet)} \end{array} \times \begin{array}{l} 0.163 \text{ gal/ft (2-inch well)} / \\ 0.653 \text{ gal/ft (4-inch well)} \end{array} = \begin{array}{l} \text{1 Casing Volume} \\ \text{(gal)} \end{array}$$

$$\boxed{19.50} - \boxed{7.23} = \boxed{12.27} \times \boxed{0.163} = \boxed{2.0 \times 3 = 6.0}$$

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
10055	3.59	—	—	—	—	—	0 gal.	
1238	15	228	—	—	—	—	0.25 gal.	Clear
1243	↓			123	57.5	6.08	2.0 gal.	..
1248	No Flow			123	57.7	6.08	4.0 gal.	..
1255	thin cell			123	59.7	6.08	6.0 gal.	..
1305	Sampling Time							

Purge Method: Hand bailTotal Volume Removed: 6.0 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-102	3 - 40ml vials	YES / HCl	NCL	TPHG / BTEX

Well Condition: Good

Remarks:

Recharged to 7.24' at sampling time (1305)



Water Sampling Data Sheet

Project Name:	<u>Blue Lake Baiting and Leather</u>	Date/Time:	<u>12.5.05</u>
Project No.:	<u>097309</u>	Sampler Name:	<u>David L. Paine A. Melody</u>
Location:	<u>Blue Lake, CA</u>	Sample Type:	<u>Ground water</u>
Well #:	<u>MW - 103</u>	Weather	<u>clear</u>
Hydrocarbon Thickness/Depth (feet):	<u>NA</u>	Key Needed:	<u>YES Dolphin</u>

$$\begin{array}{rcccl} \text{Total Well Depth} & & \text{Initial Depth to} & & \text{1 Casing Volume} \\ (\text{feet}) & - & \text{Water (feet)} & = & (\text{gal}) \\ \boxed{18.65} & - & \boxed{7.44} & = & \boxed{11.21} \\ & & & \times & \times \\ & & & 0.163 \text{ gal/ft (2-inch well) /} & 0.163 \text{ gal/ft (2-inch well) /} \\ & & & 0.653 \text{ gal/ft (4-inch well) } & 0.653 \text{ gal/ft (4-inch well) } \\ & & & = & = \\ & & & \boxed{0.653} & \boxed{7.32 \times 3 = 21.97} \end{array}$$

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1102	2.25	—	—	—	—	—	0 gal.	
1345	↓	40	224	—	—	—	0.25 gal.	
1352	↓			165	60.3	6.12	7.50 gal.	
1400	No Flow			160	60.6	6.11	15.0 gal.	
1404	than call			160	60.3	6.08	20.0 gal.	
1415	Sample Time							

Purge Method: Hand bailTotal Volume Removed: 22.0 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW - 103	3 - 40ml vials	YES / HCL	NCL	TPHG / BTEX

Well Condition: Good

Remarks:

Recharged to 7.44' at sampling time (1415)



Water Sampling Data Sheet

Project Name:	Blue Lake Bedding and Leather	Date/Time:	12.5.05
Project No.:	097309	Sampler Name:	David R. Pain A. Melody
Location:	Blue Lake, CA	Sample Type:	Ground water
Well #:	MW-104	Weather	clear
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
16.55	-	6.79	=	9.76	x	0.653	=	6.39 x 3 = 19.11

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1108	2.54	—	—	—	—	—	0 gal.	
1500	10	270	—	—	—	—	0.25 gal.	
1507	↓			121	64.4	6.36	6.50 gal.	
1513	No Flow			121	64.5	6.26	12.75 gal.	
1518	than cell			119	64.5	6.27	19.25 gal.	
1525	Sampling Time							

Purge Method: Hand bail

Total Volume Removed: 19.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-104	3 - 4cm vials	YES / HCL	NCL	TPHG / BTEX

Well Condition: Good

Remarks:

Recharged to 8.01' + sampling Time (1525)



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Water Sampling Data Sheet

Project Name:	<u>Blue Lake Bedding and Leather</u>	Date/Time:	<u>12.5.05</u>
Project No.:	<u>097309</u>	Sampler Name:	<u>David R. Painter A. Melody</u>
Location:	<u>Blue Lake, CA</u>	Sample Type:	<u>Ground water</u>
Well #:	<u>MW-105</u>	Weather	<u>clear</u>
Hydrocarbon Thickness/Depth (feet):	<u>NA</u>	Key Needed:	<u>YES Dolphin</u>

$$\begin{array}{l} \text{Total Well Depth} \quad - \quad \text{Initial Depth to} \\ \text{(feet)} \qquad \qquad \qquad \text{Water (feet)} \quad = \quad \text{Height of Water} \\ \boxed{15.10} \quad - \quad \boxed{7.31} \quad = \quad \boxed{7.79} \end{array} \quad \begin{array}{l} \times \quad 0.163 \text{ gal/ft (2-inch well) /} \\ \qquad \qquad \qquad 0.653 \text{ gal/ft (4-inch well)} \end{array} \quad = \quad \begin{array}{l} 1 \text{ Casing Volume} \\ (\text{gal}) \end{array}$$

$$\boxed{0.163} \quad = \quad \boxed{1.27 \times 3 = 3.80}$$

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1307	1.61	—	—	—	—	—	0 gal.	
1311		80	274	—	—	—	0.25 gal.	
1317	↓			302	59.2	6.13	1.50 gal.	
1320	No Flow			303	59.4	6.13	2.75 gal.	
1325	than cell			296	59.5	6.13	4.0 gal.	
1335	Sample Time							

Purge Method: Hand bail

Total Volume Removed: 4.0 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-105	3 - 40ml vials	YES / HCl	NCL	TPHG / BTEX

Well Condition: Good

Remarks:

Recharged to 7.33' at sampling time (1335)



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Water Sampling Data Sheet

Project Name:	<u>Blue Lake Bedding and Leather</u>	Date/Time:	<u>12.5.05</u>
Project No.:	<u>097309</u>	Sampler Name:	<u>David R. Painter A. Melody</u>
Location:	<u>Blue Lake, CA</u>	Sample Type:	<u>Ground water</u>
Well #:	<u>MW-106</u>	Weather	<u>Clear</u>
Hydrocarbon Thickness/Depth (feet):	<u>NA</u>	Key Needed:	<u>YES Dolphin</u>

$$\begin{array}{l} \text{Total Well Depth} \\ \text{(feet)} \end{array} - \begin{array}{l} \text{Initial Depth to} \\ \text{Water (feet)} \end{array} = \begin{array}{l} \text{Height of Water} \\ \text{Column (feet)} \end{array} \times \begin{array}{l} 0.163 \text{ gal/ft (2-inch well) /} \\ 0.653 \text{ gal/ft (4-inch well)} \end{array} = \begin{array}{l} 1 \text{ Casing Volume} \\ (\text{gal}) \end{array}$$

$$\boxed{15.00} - \boxed{5.14} = \boxed{9.86} \times \boxed{0.163} = \boxed{1.60 \times 3 = 4.80}$$

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1038	<u>2.32</u>	—	—	—	—	—	0 gal.	clear
1125	+ 30	205	—	—	—	—	0.25 gal.	..
1132	↓		151	56.5	5.88	1.75 gal.	..	
1142	No Flow		147	56.8	5.97	3.25 gal.	..	
1145	than cell		147	56.7	5.98	5.0 gal.	..	
1155	Sample Time							

Purge Method: Hand bail

Total Volume Removed: 5.0 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-106	3 ~ 4cm vials	YES / HCL	NCL	TPHG / BTEX

Well Condition: Good

Remarks:

Recharged to 5.22' at sampling Time (1155)



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Water Sampling Data Sheet

Project Name:	Blue Lake Belting and Leather	Date/Time:	12.5.05
Project No.:	097309	Sampler Name:	David R. Payne A. Melo
Location:	Blue Lake, CA	Sample Type:	Ground water
Well #:	MW-3	Weather:	Clear
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

$$\begin{array}{rcl} \text{Total Well Depth} & - & \text{Initial Depth to} \\ (\text{feet}) & & \text{Water (feet)} \\ \boxed{14.70} & - & \boxed{7.31} \end{array} = \begin{array}{c} \text{Height of Water} \\ \text{Column (feet)} \end{array} = \boxed{7.39} \quad \times \begin{array}{l} 0.163 \text{ gal/ft (2-inch well) /} \\ 0.653 \text{ gal/ft (4-inch well)} \end{array} = \begin{array}{c} 1 \text{ Casing Volume} \\ (\text{gal}) \end{array} = \boxed{0.163} = \boxed{1.20 \times 3 = 3.60}$$

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1107	1.75	—	—	—	—	—	0 gal,	
1425	30	259	—	—	—	—	0.5 gal,	
1437	↓			131	60.5	6.15	1.25 gal,	
1442	No Flow			134	60.9	6.14	2.50 gal,	
1447	Thru cell			135	60.8	6.14	3.75 gal.	
1450								
1450	Sample Time							

Purge Method: Hand Bail

Total Volume Removed: 3.75 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-3	3 ~ 40ml vials	yes HCl	NCL	TPHG/BTEX

Well Condition: Good

Remarks:

Recharged to 7.41' at sample time (1450)



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DAILY FIELD REPORT

JOB NO	097309	
Page	1 of 1	
DAILY FIELD REPORT SEQUENCE NO		
DATE	12-1-05	DAY OF WEEK
PROJECT ENGINEER/ SUPERVISOR	Mike Foget	TECHNICIAN
A. Melody		

PROJECT NAME	CLIENT/OWNER
Blue Lake Belting and Leather	Blue Lake Belting and Leather
GENERAL LOCATION OF WORK	OWNER/CLIENT REPRESENTATIVE
Blue Lake, CA.	Charles Hantzinger
TYPE OF WORK	WEATHER
Quarterly Sampling	rain
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED
DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING	
900	Arrived at site, removed lids + caps on 8 wells. M-3 had car over it.
945	Started taking water level readings, decon sonader between wells w/Lippincott + rinsing w/ DI water, secured wells OBS-1 + OBS-2 cys + lids. Started DO readings Began purging MW-106 with disposable bailea, all purge water was caught in 5-gal graduated bucket.
	Began purging MW-101 with a disposable bailea as MW-106.
1100	Off Site - raining too hard, - will come back Mon 12/5/05
COPY GIVEN TO:	
REPORTED BY:	



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Groundwater Elevations

Job No.: 097309

Name: A. Melode

Client: CHARLES HUNTZINGER

Date: 12.1.05

Location: BLUE LAKE, CA

Weather: Rain



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Water Sampling Data Sheet

Project Name: Blue Lake Belting and Leather Date/Time: 12/1/05
Project No.: 097309 Sampler Name: David R. Painter A. Melody
Location: Blue Lake, CA Sample Type: Ground water
Well #: MW-101 Weather: RAIN
Hydrocarbon Thickness/Depth (feet): NA Key Needed: YES Dolphin

$$\begin{array}{l} \text{Total Well Depth} \\ \text{(feet)} \end{array} - \begin{array}{l} \text{Initial Depth to} \\ \text{Water (feet)} \end{array} = \begin{array}{l} \text{Height of Water} \\ \text{Column (feet)} \end{array} \times \begin{array}{l} 0.163 \text{ gal/ft (2-inch well) /} \\ 0.653 \text{ gal/ft (4-inch well)} \end{array} = \begin{array}{l} 1 \text{ Casing Volume} \\ \text{(gal)} \end{array}$$

13.00	-	5.5	=	7.49	×	0.163	=	1.22 × 3 = 3.66
		1.05						

Purge Method: Hand bail

Total Volume Removed: _____ (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-101	3 ~ 4cm1 vials	YES / HCl	NCL	TPHG / BZK

Well Condition: Good

Remarks: _____

Recharged to at sampling Time



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Water Sampling Data Sheet

Project Name: Blue Lake Bedding and Leather Date/Time: _____
Project No.: 097309 Sampler Name: David R. Paine
Location: Blue Lake, CA Sample Type: Ground water
Well #: MW-106 Weather: _____
Hydrocarbon Thickness/Depth (feet): NA Key Needed: YES Dolphin

$$\begin{array}{rcl} \text{Total Well Depth} & - & \text{Initial Depth to Water (feet)} \\ (\text{feet}) & & \\ \boxed{15.00} & - & \boxed{3.85} \\ & & \end{array} = \begin{array}{rcl} \text{Height of Water Column (feet)} & \times & 0.163 \text{ gal/ft (2-inch well) /} \\ & & 0.653 \text{ gal/ft (4-inch well)} \\ \boxed{11.15} & \times & \boxed{0.163} \\ & & \end{array} = \boxed{1.82 \times 3 = 5.45}$$

Purge Method: Hand bail Total Volume Removed: (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-106	3 ~ 40ml vials	YES / HCL	NCL	TPHG / B/EX

Well Condition: Good

Remarks:

Recharged to _____ at sampling Time _____



Project Name:	BLUE LAKE MARKET				Tech:	RLD			
Project No.:	3888.01				Mob/Demob time:	.50/.50			
Date:	12-1-05				Travel time:	1.0			
Global ID No.:	T0602300170				Time on site:	11:00			
PM:	TDN				Time off site:	1:00			
WELL No.:	MW1		MW2		MW4		MW5	MW3	
DIAMETER (in)	2.0		2.0		1.5		1.5	2.0	
SCREENED INTERVAL (ft)	5-15		4-14		10-15		10-15	5-15	
DEPTH TO WATER (ft)	3.61		4.91		TD. 14.0		3.81		
FIELD INTRINSICS	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	
	pH								
	TEMP (°C)								
	E _{CW} (μmhos)								
	ORP (mV)	-12	24	12	17	—		-1	-36
	DO (mg/L)	0.48	0.46	0.72	0.48	—		0.99	0.72
	OTHER (units)	—		—		—		F-L-F	
PURGE	TIME	11:39	11:47	12:11	12:17	—		12:37	12:45
	METHOD (DHP/CB/B)	DHP		DHP		—		DHP	
	RATE (Lpm)	0.31		0.50		—		0.19	
	VOLUME (L)	2.5		3.0		—		1.5	
	COLOR	CLEAR	CLEAR	CLEAR	CLEAR	—		CLEAR	CLEAR
	ODOR	MED FUEL	MED SULFUR	LIGHT SULFUR	LIGHT FUEL	—		MED SULFUR	MED SULFUR
	INTAKE DEPTH (FEET)	10.0	9.0	—		—		9.0	—
SAMPLE	TIME	11:49		12:19		—		12:47	
	METHOD (DHP/CB/B)	DHP		DHP		—		DHP	
	ANALYTES	TPHg/BTEX		TPHg/BTEX		TPHg/BTEX		TPHg/BTEX	
	TOTAL DRAWDOWN (FEET)	0.59		0.04		—		0.10	
	REMARKS	—		—		DRY @ 14.0		—	
WELL CONDITION	Good		Good		Good		Good		
WASTE DRUMS	CAR PARKED OVER IT								

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



LACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501

TEL 707.443.5054

FAX 707.443.0553

Project Name:

Blue Lake middle T

Project No.: 38988.0

Tech: P. L. D.

Date: 12-1-05

WELL ID: M-35

WELL ID:

WELL ID:

WELL ID:



LACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501

TEL 707.443.5054

FAX 707.443.0553

Project Name:

THE LAKE MEET

Project No.: 1898.01

Tech: R.L.D

Date: 12/1/03

Date: _____



DAILY FIELD REPORT

Job No. 097309

Page of

Project Name <i>Blue Lake Belting & Leather</i>	Client/Owner	Daily Field Report Sequence No	
General Location Of Work	Owner/Client Representative	Date 12/19/05	Day Of Week Mon
General Contractor	Grading Contractor	Project Engineer <i>Mike Fogat</i>	
Type Of Work <i>O&M</i>	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather <i>Rain</i>	Technician <i>Dustin Tibbets</i>	
Key Persons Contacted (Civil Engr, Architect, Developer, Etc)			

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

1105 On site Fixing track and putting new filter
on ozone compressor.

1245 Taking reading from systems.

1330 Off S. to

Copy given to:

Reported By:

Dustin Tibbets

Blue Lake Belting & Leather Works
097309
Ozone System Monitoring Form

Technician: <u>DCT</u>	Date: <u>12/19/05</u>
Weather: <u>Rain</u>	Time Onsite: <u>1105</u> Offsite: <u>1330</u>
Electric Meter: <u>19404</u>	Ozone Badge: Positive -or- Negative

- Don ozone badge and activate,
- Inspect overall system for leaks, wear, etc.
- Inspect vaults of monitoring wells, observation wells, sparge wells, and pull box,
- Inspect air filters (clean or replace),
- Complete system readings,
- Inspect ozone badge for positive or negative exposure.

System Readings		
Ozone Generator Flow (scfh)		<u>9</u>
Ozone Generator Pressure (psi)		<u>9</u>
Ozone Generator Indicator Lights	Left: <u>On</u> Off	Right: <u>On</u> Off
Ozone Output (%)		<u>100</u>
Auto Drain Valve	On: <u>1</u> (sec)	Off: <u>45</u> (min)
System Run Time (hr:min)		

Well	Flow (scfm)	Pressure (psi)	Total Run Time (hr:min)	Programmed Run Time (minutes)	Observations
SP-1	<u>1.1</u>	<u>10</u>	<u>479:50</u>	<u>5</u>	
SP-2	<u>1</u>	<u>10</u>	<u>479:7</u>	<u>5</u>	
SP-3	<u>1.1</u>	<u>10</u>	<u>73:4</u>	<u>10</u>	
SP-4	<u>1</u>	<u>11</u>	<u>71:57</u>	<u>10</u>	
SP-5	<u>1</u>	<u>11</u>	<u>71:22</u>	<u>10</u>	
SP-6	<u>•85</u>	<u>14</u>	<u>70:57</u>	<u>10</u>	
SP-7	<u>1</u>	<u>12</u>	<u>478:37</u>	<u>5</u>	
SP-8	<u>1.2</u>	<u>6</u>	<u>478:09</u>	<u>5</u>	
SP-9	<u>1.1</u>	<u>9</u>	<u>478:0</u>	<u>5</u>	
SP-10	<u>1</u>	<u>11</u>	<u>20:4</u>	<u>10</u>	

Comments: _____



DAILY FIELD REPORT

Job No. 097.309

Page _____ of _____

Project Name <i>Blue Lake Belting & Leather</i>	Client/Owner	Daily Field Report Sequence No	
General Location Of Work	Owner/Client Representative	Date <i>11/16/05</i>	Day Of Week <i>Wed.</i>
General Contractor	Grading Contractor	Project Engineer <i>Mike Fogel</i>	
Type Of Work <i>O&M</i>	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather <i>Clear</i>	Technician <i>Dustin Tibbets</i>	
Key Persons Contacted (Civil Engr, Architect, Developer, Etc)			

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

Weather
Clear

Key Person Contracted (Child F - A 11) - Page 1

1022 On s.t.c., changing out siliconless
1353 Begin to take reading from system.
1415 off s.t.c.

Copy given to:

Reported By:

Reported By:
Dante Sibbet

Blue Lake Belting & Leather Works
097309
Ozone System Monitoring Form

Technician: <u>DCT</u>	Date: <u>11/16/05</u>
Weather: <u>Clear</u>	Time Onsite: <u>1022</u> Offsite: <u>1415</u>
Electric Meter: <u>18928</u>	Ozone Badge: Positive -or- Negative

- Don ozone badge and activate,
- Inspect overall system for leaks, wear, etc.
- Inspect vaults of monitoring wells, observation wells, sparge wells, and pull box,
- Inspect air filters (clean or replace),
- Complete system readings,
- Inspect ozone badge for positive or negative exposure.

System Readings	
Ozone Generator Flow (scfh)	<u>9</u>
Ozone Generator Pressure (psi)	<u>3.5</u>
Ozone Output (%)	<u>100</u>
Auto Drain Valve	On: <u>1</u> (sec) Off: <u>45</u> (min)
System Run Time (hr:min)	<u>7731. 4/10</u>

Well	Flow (scfm)	Pressure (psi)	Total Run Time (hr:min)	Programmed Run Time (minutes)	Observations
SP-1	<u>1.15</u>	<u>9</u>	<u>445:54</u>	<u>5</u>	
SP-2	<u>1.1</u>	<u>11</u>	<u>445:27</u>	<u>5</u>	
SP-3	<u>1.1</u>	<u>10</u>	<u>6:07</u>	<u>10</u>	
SP-4	<u>1.1</u>	<u>10</u>	<u>5:06</u>	<u>10</u>	
SP-5	<u>1.1</u>	<u>10</u>	<u>4:31</u>	<u>10</u>	
SP-6	<u>1.0</u>	<u>14</u>	<u>4:10</u>	<u>10</u>	
SP-7	<u>1.1</u>	<u>11</u>	<u>444:46</u>	<u>5</u>	
SP-8	<u>1.2</u>	<u>6</u>	<u>444:48</u>	<u>5</u>	
SP-9	<u>1.2</u>	<u>8</u>	<u>444:39</u>	<u>5</u>	
SP-10	<u>1.0</u>	<u>11</u>	<u>3:23</u>	<u>10</u>	

Comments:



DAILY FIELD REPORT

Job No. 097309

Page _____ of _____

Daily Field Report Sequence No

Project Name <i>Blue Lake Belting & Leather</i>	Client/Owner	
General Location Of Work	Owner/Client Representative	Date <i>10/28/05</i> Day Of Week <i>Fri.</i>
General Contractor	Grading Contractor	Project Engineer <i>Mike Fogel</i>
Type Of Work <i>O&M</i>	Grading Contractor, Superintendent, Or Foreman	Supervisor
Source & Description Of Fill Material	Weather <i>Rain</i>	Technician <i>Dustin Tibbets</i>
Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

1205 On site.

1210 Taking readings from ozone system.

1230 Off site.

Copy given to:

Reported By:

Dustin Tibbets

Blue Lake Belting & Leather Works
097309
Ozone System Monitoring Form

Technician: <i>Dustin Tibbets</i>	Date: <i>10/28/05</i>
Weather: <i>Rain</i>	Time Onsite: <i>12:05</i> Offsite:
Electric Meter: <i>08598</i>	Ozone Badge: Positive -or- <i>Negative</i>

- Don ozone badge and activate,
- Inspect overall system for leaks, wear, etc.
- Inspect vaults of monitoring wells, observation wells, sparge wells, and pull box,
- Inspect air filters (clean or replace),
- Complete system readings,
- Inspect ozone badge for positive or negative exposure.

System Readings	
Ozone Generator Flow (scfh)	<i>9</i>
Ozone Generator Pressure (psi)	<i>5</i>
Ozone Output (%)	<i>100</i>
Auto Drain Valve	On: <i>1</i> (sec) Off: <i>45</i> (min)
System Run Time (hr:min)	<i>7277.5</i>

Well	Flow (scfm)	Pressure (psi)	Total Run Time (hr:min)	Programmed Run Time (minutes)	Observations
SP-1	<i>1.2</i>	<i>6</i>	<i>415:37</i>	<i>5</i>	
SP-2	<i>1.2</i>	<i>7</i>	<i>415:11</i>	<i>5</i>	
SP-3	<i>1.0</i>	<i>10</i>	<i>491:42</i>	<i>10</i>	
SP-4	<i>1.1</i>	<i>9</i>	<i>490:43</i>	<i>10</i>	
SP-5	<i>1.1</i>	<i>9</i>	<i>490:40</i>	<i>10</i>	
SP-6	<i>.95</i>	<i>14</i>	<i>489:44</i>	<i>10</i>	
SP-7	<i>1.0</i>	<i>12</i>	<i>414:31</i>	<i>5</i>	
SP-8	<i>1.2</i>	<i>6</i>	<i>414:35</i>	<i>5</i>	
SP-9	<i>1.1</i>	<i>8</i>	<i>414:28</i>	<i>5</i>	
SP-10	<i>1.1</i>	<i>9</i>	<i>489:10</i>	<i>10</i>	

Comments:

Client Name: BLUE LAKE BELTING & LEATHER WORKS

The water from your site: 411 RAILROAD AVE, BLUE LAKE,
CA; LOP #12012

SHN ref #: 097309 Collected On: 12/5/2005

Has been tested and certified as acceptable to be discharged into the City of
Eureka municipal sewer system.

Amount Discharged:

63 GALLONS

Date Discharged:

2/2/2005

Certified by: AARON MELODY

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.

City of Eureka Wastewater Discharge Permit #65

Appendix B

Historic Monitoring Data

Table B-1
Historic Groundwater Elevations
Blue Lake Belting & Leather Works, Blue Lake, California

Location	Date	Top of Casing Elevation (feet) ¹	Depth to Water (feet) ²	Groundwater Elevation (feet) ³
MW-101	12/01/99	91.89	6.24	85.65
	03/01/00		6.49	85.40
	06/01/00		7.89	84.00
	09/01/00		13.57	78.32
	12/01/00		7.57	84.32
	03/01/01		7.59	84.30
	06/01/01		9.70	82.19
	09/04/01		13.64	78.25
	12/03/01		5.84	86.05
	03/01/02		7.18	84.71
	06/03/02		9.13	82.76
	09/03/02		13.66	78.23
	12/02/02		13.16	78.73
	03/03/03		7.38	84.51
	06/02/03		7.81	84.08
	09/02/03		13.50	78.39
	12/01/03		7.31	84.58
	03/01/04		6.60	85.29
	06/01/04		7.94	83.95
	09/02/04		13.40	78.49
	12/01/04		7.96	83.93
	03/01/05		7.80	84.47
	06/01/05		8.01	84.26
	09/01/05		dry	
	12/05/05		7.05	85.22
MW-102	12/01/99	91.19	7.23	83.96
	03/01/00		7.23	83.96
	06/01/00		8.12	83.07
	09/01/00		13.48	77.71
	12/01/00		7.83	83.36
	03/01/01		7.92	83.27
	06/01/01		10.43	80.76
	09/04/01		13.68	77.51
	12/03/01		6.83	84.36
	03/01/02		7.56	83.63
	06/03/02		9.87	81.32
	09/03/02		13.73	77.46
	12/02/02		13.21	77.98
	03/03/03		7.62	83.57
	06/02/03		8.02	83.17

Table B-1
Historic Groundwater Elevations
Blue Lake Belting & Leather Works, Blue Lake, California

Location	Date	Top of Casing Elevation (feet) ¹	Depth to Water (feet) ²	Groundwater Elevation (feet) ³
MW-102 (cont'd)	09/02/03	91.19	13.40	77.79
	12/01/03		7.65	83.54
	03/01/04		7.23	83.96
	06/01/04		8.29	82.90
	09/02/04		13.43	77.76
	12/01/04		8.02	83.17
	03/01/05		7.66	83.53
	06/01/05		7.80	83.39
	09/01/05		12.87	78.32
	12/05/05		7.23	83.96
MW-103	12/01/99	91.57	7.41	84.16
	03/01/00		7.48	84.09
	06/01/00		8.44	83.13
	09/01/00		13.77	77.80
	12/01/00		8.09	83.48
	03/01/01		8.21	83.36
	06/01/01		10.71	80.86
	09/04/01		13.99	77.58
	12/03/01		6.99	84.58
	03/01/02		7.89	83.68
	06/03/02		10.23	81.34
	09/03/02		14.06	77.51
	12/02/02		13.50	78.07
	03/03/03		7.97	83.60
	06/02/03		8.38	83.19
	09/02/03		13.65	77.92
	12/01/03		7.93	83.64
	03/01/04		7.54	84.03
	06/01/04		8.60	82.97
	09/02/04		13.73	77.84
	12/01/04		8.32	83.25
	03/01/05		7.91	83.66
	06/01/05		8.09	83.48
	09/01/05		13.12	78.45
	12/05/05		7.44	84.13
MW-104	12/01/99	91.48	6.58	84.90
	03/01/00		6.76	84.72
	06/01/00		8.03	83.45
	09/01/00		13.48	78.00
	12/01/00		7.63	83.85

Table B-1
Historic Groundwater Elevations
Blue Lake Belting & Leather Works, Blue Lake, California

Location	Date	Top of Casing Elevation (feet) ¹	Depth to Water (feet) ²	Groundwater Elevation (feet) ³
MW-104 (cont'd)	03/01/01	91.48	7.74	83.74
	06/01/01		9.94	81.54
	09/04/01		13.67	77.81
	12/03/01		6.15	85.33
	03/01/02		7.35	84.13
	06/03/02		9.40	82.08
	09/03/02		13.80	77.68
	12/02/02		13.01	78.47
	03/03/03		7.51	83.97
	06/02/03		7.93	83.55
	09/02/03		13.30	78.18
	12/01/03		7.36	84.12
	03/01/04		6.76	84.72
	06/01/04		8.05	83.43
	09/02/04		13.29	78.19
	12/01/04		8.01	83.47
	03/01/05		7.51	83.97
	06/01/05		7.72	83.76
	09/01/05		12.68	78.80
	12/05/05		6.79	84.69
MW-105	12/01/99	91.32	7.25	84.07
	03/01/00		7.30	84.02
	06/01/00		8.25	83.07
	09/01/00		13.64	77.68
	12/01/00		7.91	83.41
	03/01/01		8.04	83.28
	06/01/01		10.57	80.75
	09/04/01		13.85	77.47
	12/03/01		6.84	84.48
	03/01/02		7.69	83.63
	06/03/02		10.01	81.31
	09/03/02		13.91	77.41
	12/02/02		13.39	77.93
	03/03/03		7.75	83.57
	06/02/03		8.17	83.15
	09/02/03		13.58	77.74
	12/01/03		7.76	83.56
	03/01/04		7.35	85.97
	06/01/04		8.44	82.88
	09/02/04		13.61	77.71

Table B-1
Historic Groundwater Elevations
Blue Lake Belting & Leather Works, Blue Lake, California

Location	Date	Top of Casing Elevation (feet)¹	Depth to Water (feet)²	Groundwater Elevation (feet)³
MW-105 (cont'd)	12/01/04	91.32	8.15	83.17
	03/01/05		7.76	83.56
	06/01/05		7.94	83.38
	09/01/05		13.05	78.27
	12/05/05		7.31	84.01
MW-106	12/01/99	88.88	5.30	83.58
	03/01/00		5.22	83.66
	06/01/00		6.09	82.79
	09/01/00		11.68	77.20
	12/01/00		5.81	83.07
	03/01/01		5.91	82.97
	06/01/01		8.45	80.43
	09/04/01		11.92	76.96
	12/03/01		4.96	83.92
	03/01/02		5.59	83.29
	06/03/02		7.91	80.97
	09/03/02		11.99	76.89
	12/02/02		11.43	77.45
	03/03/03		5.64	83.24
	06/02/03		6.04	82.84
	09/02/03		11.58	77.30
	12/01/03		5.71	83.17
	03/01/04		5.24	83.64
	06/01/04		6.27	82.61
	09/02/04		11.65	77.23
	12/01/04		5.98	82.90
	03/01/05		5.62	83.26
	06/01/05		5.79	83.09
	09/01/05		11.03	77.85
	12/05/05		5.14	83.74
MW-1	12/01/99	89.45 ⁴	5.05	84.40
	03/01/00		5.11	84.34
	06/01/00		6.64	82.81
	09/01/00		NA ⁵	NA
	12/01/00		7.45	82.00
	03/01/01		6.40	83.05
	12/03/01		4.47	84.98
	03/01/02		4.93	84.52
	06/05/02		8.45	81.00
	09/03/02		12.01	77.44

Table B-1
Historic Groundwater Elevations
Blue Lake Belting & Leather Works, Blue Lake, California

Location	Date	Top of Casing Elevation (feet) ¹	Depth to Water (feet) ²	Groundwater Elevation (feet) ³
MW-1 (cont'd)	01/02/03	89.45 ⁴	4.56	84.89
	03/03/03		NA	NA
	06/02/03		6.65	82.80
	09/11/03		NA	NA
	12/01/03		5.54	83.91
	03/01/04		5.68	83.77
	09/02/04		11.73	77.72
	12/01/04		6.58	82.87
	03/01/05		5.96	83.49
	06/01/05		6.47	82.98
	09/01/05		10.91	78.54
	12/01/05		3.61	85.84
MW-2	12/01/99	91.29 ⁴	6.25	85.04
	03/01/00		6.43	84.86
	06/01/00		7.82	83.47
	09/01/00		NA	NA
	12/01/00		6.09	85.20
	03/01/01		7.54	83.75
	12/03/01		5.74	85.55
	03/01/02		6.44	84.85
	06/05/02		9.32	81.97
	09/03/02		12.90	78.39
	01/02/03		5.78	85.51
	03/03/03		7.37	83.92
	06/02/03		7.81	83.48
	09/11/03		NA	NA
	12/01/03		7.01	84.28
	03/01/04		6.95	84.34
	09/02/04		13.81	77.48
	12/01/04		7.88	83.41
	03/01/05		7.33	83.96
MW-3	06/01/05	91.63 ⁴	7.62	83.67
	09/01/05		12.33	78.96
	12/01/05		4.91	86.38
	12/01/99		7.29	84.34
	03/01/00		7.25	84.38
	06/01/00		8.36	83.27

Table B-1
Historic Groundwater Elevations
Blue Lake Belting & Leather Works, Blue Lake, California

Location	Date	Top of Casing Elevation (feet)¹	Depth to Water (feet)²	Groundwater Elevation (feet)³
MW-3 (cont'd)	12/03/01	91.63 ⁴	6.78	84.85
	03/01/02		7.33	84.30
	06/05/02		10.23	81.40
	09/03/02		13.88	77.75
	01/02/03		6.95	84.68
	03/03/03		7.95	83.68
	06/02/03		8.42	83.21
	09/11/03		NA	NA
	12/01/03		7.83	83.80
	03/01/04		7.61	84.02
	09/02/04		13.68	77.95
	12/01/04		8.39	83.24
	03/01/05		7.84	83.79
	06/01/05		8.07	83.56
	09/01/05		12.92	78.71
	12/05/05		7.31	84.32

1. Referenced to top of casing elevation of Blue Lake Market well MW-1

2. Below top of casing

3. In feet, relative to Blue Lake Market well MW-1 top of casing elevation

4. Top of casing elevation surveyed relative mean sea level

5. NA: Not Available

Table B-2
Historic Groundwater Contaminant Levels
Blue Lake Belting & Leather Works, Blue Lake, California
(in ug/L)¹

Well Location	Sampling Date	TPHG ²	Benzene	Toluene	Ethyl-Benzene	m,p-Xylene	o-Xylene	Dissolved Lead	MTBE ³	TBA ³	DIPE ³	ETBE ³	TAME ³
MW-101	12/1/99	<50 ⁴	<0.50	<0.50	<0.50	<0.50	<0.50	NA ⁵	<0.50	<10	<1.0	<1.0	<1.0
3/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	NA	NA	NA	NA
9/1/00	NS ⁶	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
3/1/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/1/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/4/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/3/01	160	<0.50	<4.0	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
3/1/02	<50	<0.50	<4.0	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/3/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/3/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
12/2/02	64	<0.50	<2.8	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
3/3/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/2/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/2/03	NA	NA	NA	NA	NA	NA	NA	NA	<3.0	NA	NA	NA	NA
12/1/03	<50	<0.50	<1.4	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
3/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/2/04	90	<0.50	<3.0	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
12/1/04													
3/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<10	NA	NA	NA	NA
6/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/1/05													
12/5/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<10	NA	NA	NA	NA
MW-102	12/1/99	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<10	<1.0	<1.0	<1.0
3/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	NA	NA	NA	NA
9/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA
12/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA

Table B-2
Historic Groundwater Contaminant Levels
Blue Lake Belting & Leather Works, Blue Lake, California
 (in ug/L)¹

Well Location	Sampling Date	TPHG ²	Benzene	Toluene	Ethyl-Benzene	m,p-Xylene	o-Xylene	Dissolved Lead	MTBE ³	TBA ³	DIPE ³	ETBE ³	TAME ³
MW-102	3/1/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
(cont'd)	6/1/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/4/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
12/3/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
3/1/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/3/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/3/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
12/2/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
3/3/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/2/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/2/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
12/1/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
3/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/2/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
12/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
3/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
12/5/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
MW-103	12/1/99	2,200	27	14	26	47	11	NA	<1.0	<20	<2.0	<2.0	<2.0
3/1/00	3,200 ⁷	47	93	55	130	47	NA	<30	NA	NA	NA	NA	NA
6/1/00	2,200	12	7.3	24	30	12	<20	<0.50	NA	NA	NA	NA	NA
9/1/00	2,300	23	2.8	18	12	1.2	NA	<0.50	NA	NA	NA	NA	NA
12/1/00	4,900	43	48	50	73	14	<80	NA	NA	NA	NA	NA	NA
3/1/01	2,900	27	37	35	49	14	NA	<60	NA	NA	NA	NA	NA
6/1/01	3,200	42	<80	16	21	9.4	NA	<30	NA	NA	NA	NA	NA
9/4/01	1,300	18	<40	7.9	5.4	<3.0	NA	<32	NA	NA	NA	NA	NA
12/3/01	5,700	150	160	95	180	39	NA	<150	NA	NA	NA	NA	NA
3/1/02	5,700	100	170	83	260	120	NA	<150	NA	NA	NA	NA	NA

Table B-2
Historic Groundwater Contaminant Levels
Blue Lake Belting & Leather Works, Blue Lake, California

(in ug/L)¹

Well Location	Sampling Date	TPHG ²	Benzene	Toluene	Ethyl-Benzene	m,p-Xylene	o-Xylene	Dissolved Lead	MTBE ³	TBA ³	DIPE ³	ETBE ³	TAME ³
MW-103	6/3/02	13,900	25	<110	35	33	17	NA	<3.0	NA	NA	NA	NA
(cont'd)	9/3/02	1,600	21	<35	11	7	<5.0	NA	<30	NA	NA	NA	NA
	12/2/02	5,700	280	110	190	300	36	NA	<120	NA	NA	NA	NA
	3/3/03	4,400	47	<200	74	170	59	NA	NA	NA	NA	NA	NA
	6/2/03	2,400	14	<70	15	12	5.3	NA	<30	NA	NA	NA	NA
	9/2/03	1,500	18	<45	13	9.5	<5.0	<10	<30	NA	NA	NA	NA
	12/1/03	3,500	49	<90	48	49	9.6	NA	NA	NA	NA	NA	NA
	3/1/04	5,800	100	160	130	260	83	NA	NA	NA	NA	NA	NA
	6/1/04	2,100	15	<110	32	26	14	NA	NA	NA	NA	NA	NA
	9/2/04	3,700	55	49	140	150	18	NA	NA	NA	NA	NA	NA
	12/1/04	2,400	42	40	41	39	8.4	NA	NA	NA	NA	NA	NA
	3/1/05	3,700	58	82	67	92	33	NA	NA	NA	NA	NA	NA
	6/1/05	2,700	33	47	46	66	13	NA	NA	NA	NA	NA	NA
	9/1/05	7,400	130	110	230	410	36	NA	NA	NA	NA	NA	NA
	12/5/05	3,900	70	81	87	110	46	NA	NA	NA	NA	NA	NA
MW-104	12/1/99	33,000	520	590	1,500	4,300	350	NA	<25.0	<500	<50.0	<50.0	<50.0
	3/1/00	15,000 ⁷	330	460	770	2,100	210	NA	<300	NA	NA	NA	NA
	6/1/00	16,000	260	490	770	1,900	200	<20	<10	NA	NA	NA	NA
	9/1/00	6,600	43	45	190	260	19	NA	<1.0	NA	NA	NA	NA
	12/1/00	34,000	550	440	1,300	3,400	200	<300	NA	NA	NA	NA	NA
	3/1/01	18,000	350	440	740	1,700	170	NA	<600	NA	NA	NA	NA
	6/1/01	17,000	260	320	540	1,400	110	NA	<300	NA	NA	NA	NA
	9/4/01	9,800	120	<200	330	510	36	NA	<400	NA	NA	NA	NA
	12/3/01	33,000	870	520	1,600	4,400	250	NA	<900	NA	NA	NA	NA
	3/1/02	20,000	400	450	930	2,300	180	NA	<650	NA	NA	NA	NA
	6/3/02	21,000	370	880	890	2,300	310	NA	<80	NA	NA	NA	NA
	9/3/02	7,400	100	<200	270	320	41	NA	<150	NA	NA	NA	NA
	12/2/02	13,000	260	210	630	1,100	91	NA	<320	NA	NA	NA	NA
	3/3/03	20,000	430	560	950	2,100	230	NA	NA	NA	NA	NA	NA
	6/2/03	26,000	540	1,100	1,300	3,100	530	NA	<600	NA	NA	NA	NA

Table B-2
Historic Groundwater Contaminant Levels
Blue Lake Belting & Leather Works, Blue Lake, California
(in ug/L)¹

Well Location	Sampling Date	TPHG ²	Benzene	Toluene	Ethyl-Benzene	m,p-Xylene	o-Xylene	Dissolved Lead	MTBE ³	TBA ³	DIPE ³	ETBE ³	TAME ³
MW-104	9/2/03	6,100	100	110	260	420	59	<10	<300	NA	NA	NA	NA
(cont'd)	12/1/03	25,000	760	520	1,300	2,500	200	NA	NA	NA	NA	NA	NA
3/1/04	21,000	400	460	1,000	1,800	210	NA	NA	NA	NA	NA	NA	NA
6/1/04	26,000	500	680	1,200	2,100	320	NA	NA	NA	NA	NA	NA	NA
12/1/04	16,000	430	460	990	1,900	190	NA	NA	NA	NA	NA	NA	NA
3/1/05	17,000	200	350	590	1,100	180	NA	NA	NA	NA	NA	NA	NA
6/1/05	13,000	130	230	490	870	140	NA	NA	NA	NA	NA	NA	NA
9/1/05	8,300	63	88	270	480	39	NA	NA	NA	NA	NA	NA	NA
12/5/05	10,000	59	100	280	500	53	NA	NA	NA	NA	NA	NA	NA
MW-105	12/1/99	2,000	40	17	12	2.1	<0.50	NA	<0.50	<10	<1.0	<1.0	<1.0
3/1/00	610 ⁷	<3.0	<15	<3.0	<2.0	<1.0	NA	NA	<3.0	NA	NA	NA	NA
6/1/00	460	<0.50	<0.50	0.65	<0.50	<0.50	<20	<0.50	NA	NA	NA	NA	NA
9/1/00	830	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	NA
12/1/00	3,100 ⁷	<12	<25	8.0	3.0	0.71	<20	NA	NA	NA	NA	NA	NA
3/1/01	890	<3.0	<10 ⁸	2.0	<2.0 ⁸	<0.50	NA	<20	NA	NA	NA	NA	NA
6/1/01	430	<0.50	<7.0	<1.2	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA	NA
9/4/01	650	<4.0	<9.0	<1.5	<1.2	<1.0	NA	<13	NA	NA	NA	NA	NA
12/3/01	4,700	11	<40	18	6.3	1.8	NA	<100	NA	NA	NA	NA	NA
3/1/02	260	1.7	<6.0	<0.50	<0.50	<0.50	NA	<6.0	NA	NA	NA	NA	NA
6/3/02	140 ⁷	<0.50	<3.0 ⁹	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA	NA
9/3/02	360 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA	NA
12/2/02	680	6.0	<11	2.1	0.82	<2.0	NA	<13	NA	NA	NA	NA	NA
3/3/03	280	<1.5	<5.5	<1.0	<1.0	<0.50	NA	<3.0	NA	NA	NA	NA	NA
6/2/03	210	<0.50	<5.5	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA	NA
9/2/03	250	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<3.0	NA	NA	NA	NA	NA
12/1/03	1,500	<5.0	<40	3.8	1.6	<1.5	NA	NA	NA	NA	NA	NA	NA
3/1/04	390	<2.0	<17	0.93	0.53	<0.5	NA	NA	NA	NA	NA	NA	NA
6/1/04	210	<0.50	<12	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA
9/2/04	210	<0.50	<9	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA
12/1/04	590	<2.0	<18	1.3	0.73	<1.0	NA	NA	NA	NA	NA	NA	NA

Table B-2
Historic Groundwater Contaminant Levels
Blue Lake Belting & Leather Works, Blue Lake, California
 (in ug/L)¹

Well Location	Sampling Date	TPHG ²	Benzene	Toluene	Ethyl-Benzene	m,p-Xylene	o-Xylene	Dissolved Lead	MTBE ³	TBA ³	DIPE ³	ETBE ³	TAME ³
MW-105	3/1/05	680	<2.5	<30	<2.0	<1.5	<1.0	NA	NA	NA	NA	NA	NA
(cont'd)	6/1/05	510	1.7	9.8	0.50	0.57	<0.50	NA	NA	NA	NA	NA	NA
9/1/05	470	8.2	<15	3.6	0.95	1.2	NA	NA	NA	NA	NA	NA	NA
12/5/05	2,600	7.2	<70	8.3	4.6	<3.5	NA	NA	NA	NA	NA	NA	NA
MW-106	12/1/99	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<10	<1.0	<1.0	<1.0
3/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	NA	NA	NA	NA
9/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA
12/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
3/1/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/1/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/4/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
12/3/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
3/1/02	<50	0.74	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/3/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/3/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
12/2/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
3/3/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/2/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/2/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
12/1/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
3/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/2/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
12/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
3/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
6/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
9/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
12/5/05	110	4.4	3.7	1.6	1.1	<0.50	<0.50	NA	NA	NA	<1.0	NA	NA
12/3/01	71	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<27	NA	NA	NA	NA
3/1/02	420	11	<0.50	5.4	3.8	<0.50	<0.50	NA	<27	NA	NA	NA	NA

Table B-2
Historic Groundwater Contaminant Levels
Blue Lake Belting & Leather Works, Blue Lake, California
 (in ug/L)¹

Well Location	Sampling Date	TPHG ²	Benzene	Toluene	Ethyl-Benzene	m,p-Xylene	o-Xylene	Dissolved Lead	MTBE ³	TBA ³	DIPE ³	ETBE ³	TAME ³
MW-1 ¹⁰ (cont'd)	6/3/02	2,400 ⁷	63	32	49	30	9	NA	<70	NA	NA	NA	NA
	9/3/02	3,800 ⁷	210	<70	29	<25	<12	NA	<110	NA	NA	NA	NA
	1/2/03	400	<2.0	<4.0		<0.50	<1.0	NA	<10	NA	NA	NA	NA
	3/3/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	6/2/03	1,300	43	<30	29	9.6	<8.0	NA	<30	NA	NA	NA	NA
	9/11/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/1/03	1,500	38	<20	19	14	<4.0	NA	<80	NA	NA	NA	NA
	3/1/04												
	6/7/04												
	9/2/04	1,000	37	<19	<5.0	<3.0 ¹¹	<3.0 ¹¹	NA	<40	NA	NA	NA	NA
	12/1/04	330	4.8	<4.0	1.7	0.91	<1.0	NA	NA	NA	NA	NA	NA
	3/1/05	990	<10	<15	<15	<7.0	<3.0	NA	<35	NA	NA	NA	NA
	6/1/05	2,600	27	<30	18	10	<5.0	NA	<80	NA	NA	NA	NA
	9/1/05	1,700	24	<25	<10	<10	<10	NA	<60	NA	NA	NA	NA
	12/1/05	1,300	9.1	<15	3.4	2.4	<4.0	NA	<50	NA	NA	NA	NA
	12/3/01	4,700	7.3	42	110	500	150	NA	<1.0	NA	NA	NA	NA
	3/1/02	15,000	29	290	640	2,000	600	NA	<70	NA	NA	NA	NA
	6/3/02	3,400 ⁷	9.8	21	87	190	63	NA	<11	NA	NA	NA	NA
	9/3/02	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	1/2/03	12,000	<25	97	470	1,700	210	NA	<150	NA	NA	NA	NA
	3/3/03	270	<0.50	<5.5	2.4	8.1	4.2	NA	<3.0	NA	NA	NA	NA
	6/2/03	860	0.75	6.6	28	63	12	NA	<3.0	NA	NA	NA	NA
	9/11/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/1/03	6,700	14	52	330	970	160	NA	<30	NA	NA	NA	NA
	3/1/04												
	6/7/04												
	9/2/04	2,600	16	26	92	258 ¹¹	258 ¹¹	NA	<3.0	NA	NA	NA	NA
	12/1/04	2,200	5.2	15	110	270	21	NA	NA	NA	NA	NA	NA
	3/1/05	1,100	<2.0	10	19	48	7.9	NA	<3.0	NA	NA	NA	NA

Table B-2
Historic Groundwater Contaminant Levels
Blue Lake Belting & Leather Works, Blue Lake, California

Well Location	Sampling Date	TPHC ²	Benzene	Toluene	Ethyl-Benzene	m,p-Xylene	o-Xylene	Dissolved Lead	MTBE ³	TBA ³	DIPE ³	ETBE ³	TAME ³	
MW-2 ¹⁰ (cont'd)	6/1/05	970	1.1	<15	9	17	4.1	NA	<3.0	NA	NA	NA	NA	
	9/1/05	3,200	19	57	130	380	30	NA	<30	NA	NA	NA	NA	
	12/1/05	1,500	<5.0	6.9	63	160	7	NA	<30	NA	NA	NA	NA	
MW-3 ¹⁰	12/3/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<1.0	NA	NA	NA	NA	
	3/1/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/3/02	8,100	28	<140	69	130	17	NA	<250	NA	NA	NA	NA	
9/3/02	NS	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	
	1/2/03	23,000	390	2,700	810	3,000	1,000	NA	<150	NA	NA	NA	NA	
	3/3/03	7,500	32	<180	62	360	55	NA	<200	NA	NA	NA	NA	
6/2/03	5,600	36	<110	86	160	20	NA	<170	NA	NA	NA	NA	NA	
	9/11/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	12/1/03	10,000	77	120	200	540	54	NA	<400	NA	NA	NA	NA	
3/1/04														
Data Not Available														
6/7/04														
9/2/04	4,500	59	50	73	109 ¹¹	109 ¹¹	NA	<140	NA	NA	NA	NA	NA	NA
	12/1/04	7,500	120	340	180	470	84	NA	NA	NA	NA	NA	NA	NA
	3/1/05	11,000	160	690	370	790	220	NA	NA	NA	NA	NA	NA	NA
6/1/05	10,000	120	480	340	650	170	NA	NA	NA	NA	NA	NA	NA	NA
	9/1/05	6,700	68	160	110	180	28	NA	NA	NA	NA	NA	NA	NA
	12/5/05	14,000	180	1,600	480	1,400	500	NA	NA	NA	NA	NA	NA	NA

1. ug/L: micrograms per Liter

2. TPHC: Total Petroleum Hydrocarbons as Gasoline

3. MTBE: Methyl Tertiary-Butyl Ether; TBA: Tertiary-Butyl Alcohol; DIPE: Diisopropyl Ether; ETBE: Ethyl Tertiary-Butyl Ether; TAME: Tertiary-Amyl Methyl Ether

4. < Denotes a value that is "less than" the method detection limit.

5. NA: Not Applicable/Analyzed/Available

6. NS: Not Sampled

7. Samples do not have the typical pattern of fresh gasoline. However, the results represent the amount of material in the gasoline range.
 8. Results for samples are reported ND with a dilution due to matrix interference.

9. Reporting limits raised due to matrix interference.

10. Well sampled by LACO Associates for Blue Lake Market.

11. Analytical result represents total xylenes.

Table B-3
Historic Natural Attenuation Parameters
Blue Lake Belting & Leather Works, Blue Lake, California

Well Location	Sampling Date	DO ¹ (ppm) ²	DCO ₂ ³ (ppm)	ORP ⁴ (mV) ⁵	Alkalinity (mg/L CaCO ₃) ⁶	Dissolved Methane (ug/L) ⁷	Dissolved Iron (ug/L)	Sulfate (mg/L) ⁸	Nitrate (mg/L)	Dissolved Manganese (ug/L)
MW-101	12/01/99	1.98	40	0	NA ⁹	27.1	380	15	0.97	NA
	03/01/00	3.67	40	280	55	<7.89 ¹⁰	<100	13	1.5	28
	06/01/00	1.15	40	235	45	<7.89	<100	10	1.3	16
	09/01/00	0.55	NA	NA	NA	NA	NA	NA	NA	NA
	12/01/00	0.83	40	165	NA	NA	NA	NA	NA	NA
	03/01/01	1.35	25	97	NA	NA	NA	NA	NA	NA
	06/01/01	0.38	30	112	NA	NA	NA	NA	NA	NA
	09/04/01	0.49	NA	90	NA	NA	NA	NA	NA	NA
	12/03/01	0.74	30	106	NA	NA	NA	NA	NA	NA
	03/01/02	1.23	30	172	NA	NA	NA	NA	NA	NA
	06/03/02	0.86	30	117	NA	NA	NA	NA	NA	NA
	09/03/02	1.34	NA	164	NA	NA	NA	NA	NA	NA
	12/02/02	0.73	50	175	NA	NA	NA	NA	NA	NA
	03/03/03	1.21	25	242	NA	NA	NA	NA	NA	NA
	06/02/03	1.52	40	240	NA	NA	NA	NA	NA	NA
	09/02/03	1.47	45	203	NA	NA	NA	NA	NA	NA
	12/01/03	1.75	30	251	NA	NA	NA	NA	NA	NA
	03/01/04	2.39	15	270	NA	NA	NA	NA	NA	NA
	06/01/04	0.98	30	191	NA	NA	NA	NA	NA	NA
	09/02/04	1.12	35	117	NA	NA	NA	NA	NA	NA
	12/01/04	1.95	NA	NA	NA	NA	NA	NA	NA	NA
	03/01/05	6.08	25	132	NA	NA	NA	NA	NA	NA
	06/01/05	5.11	15	164	NA	NA	NA	NA	NA	NA
	09/01/05	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/05/05	7.81	20	264	NA	NA	NA	NA	NA	NA
MW-102	12/01/99	3.40	30	13	NA	<7.89	<100	11	1.3	NA
	03/01/00	4.16	20	305	32	<7.89	<100	7.5	1.4	<2.0
	06/01/00	3.20	20	245	31	<7.89	<100	7	0.74	<2.0

Table B-3
Historic Natural Attenuation Parameters
Blue Lake Belting & Leather Works, Blue Lake, California

Well Location	Sampling Date	DO ¹ (ppm) ²	DCO ₂ ³ (ppm)	ORP ⁴ (mV) ⁵	Alkalinity (mg/L CaCO ₃) ⁶	Dissolved Methane (ug/L) ⁷	Dissolved Iron (ug/L)	Sulfate (mg/L) ⁸	Nitrate (mg/L)	Dissolved Manganese (ug/L)
MW-102 (cont'd)	09/01/00	1.72	30	155	NA	<7.89	<15	5.8	0.77	NA
	12/01/00	4.08	30	165	NA	NA	NA	NA	NA	NA
	03/01/01	3.08	20	55	NA	NA	NA	NA	NA	NA
	06/01/01	2.96	30	158	NA	NA	NA	NA	NA	NA
	09/04/01	1.63	20	97	NA	NA	NA	NA	NA	NA
	12/03/01	3.18	20	NA	NA	NA	NA	NA	NA	NA
	03/01/02	3.84	20	159	NA	NA	NA	NA	NA	NA
	06/03/02	3.49	25	130	NA	NA	NA	NA	NA	NA
	09/03/02	1.64	15	162	NA	NA	NA	NA	NA	NA
	12/02/02	1.35	25	180	NA	NA	NA	NA	NA	NA
	03/03/03	4.10	20	249	NA	NA	NA	NA	NA	NA
	06/02/03	3.91	30	231	NA	NA	NA	NA	NA	NA
	09/02/03	2.04	15	231	NA	NA	NA	NA	NA	NA
	12/01/03	3.37	25	254	NA	NA	NA	NA	NA	NA
	03/01/04	3.46	15	278	NA	NA	NA	NA	NA	NA
	06/01/04	3.18	30	185	NA	NA	NA	NA	NA	NA
	09/02/04	1.46	20	102	NA	NA	NA	NA	NA	NA
	12/01/04	4.64	20	158	NA	NA	NA	NA	NA	NA
	03/01/05	4.51	25	158	NA	NA	NA	NA	NA	NA
	06/01/05	2.93	15	175	NA	NA	NA	NA	NA	NA
	09/01/05	1.61	20	181	NA	NA	NA	NA	NA	NA
	12/05/05	3.59	15	228	NA	NA	NA	NA	NA	NA
MW-103	12/01/99	0.74	40	3	NA	396	2,900	3.8	<0.10	NA
	03/01/00	1.18	30	10	55	377	3,200	3.5	<0.10	390
	06/01/00	0.48	40	15	45	137	2,700	3.2	<0.50	320
	09/01/00	0.47	80	5	NA	133	1,900	2.4	<0.10	NA
	12/01/00	0.71	70	-35	NA	NA	NA	NA	NA	NA
	03/01/01	0.28	30	73	NA	NA	NA	NA	NA	NA

Table B-3
Historic Natural Attenuation Parameters
Blue Lake Beltling & Leather Works, Blue Lake, California

Well Location	Sampling Date	DO ¹ (ppm) ²	DCO ₂ ³ (ppm)	ORP ⁴ (mV) ⁵	Alkalinity (mg/L CaCO ₃) ⁶	Dissolved Methane (ug/L) ⁷	Dissolved Iron (ug/L)	Sulfate (mg/L) ⁸	Nitrate (mg/L)	Dissolved Manganese (ug/L)
MW-103	06/01/01	0.12	40	165	NA	NA	NA	NA	NA	NA
(cont'd)	09/04/01	0.15	80	80	NA	NA	NA	NA	NA	NA
	12/03/01	0.34	35	112	NA	NA	NA	NA	NA	NA
	03/01/02	0.72	40	156	NA	NA	NA	NA	NA	NA
	06/03/02	0.35	35	150	NA	NA	NA	NA	NA	NA
	09/03/02	0.23	65	146	NA	NA	NA	NA	NA	NA
	12/02/02	0.49	60	198	NA	NA	NA	NA	NA	NA
	03/03/03	0.78	30	252	NA	NA	NA	NA	NA	NA
	06/02/03	1.30	125	208	NA	NA	NA	NA	NA	NA
	09/02/03	1.09	60	239	NA	NA	NA	NA	NA	NA
	12/01/03	0.98	35	274	NA	NA	NA	NA	NA	NA
	03/01/04	0.72	35	275	NA	NA	NA	NA	NA	NA
	06/01/04	0.55	70	54	NA	NA	NA	NA	NA	NA
	09/02/04	0.54	70	21	NA	NA	NA	NA	NA	NA
	12/01/04	1.43	35	73	NA	NA	NA	NA	NA	NA
	03/01/05	2.74	40	105	NA	NA	NA	NA	NA	NA
	06/01/05	0.80	35	-6	NA	NA	NA	NA	NA	NA
	09/01/05	0.76	40	-11	NA	NA	NA	NA	NA	NA
	12/05/05	2.25	40	224	NA	NA	NA	NA	NA	NA
MW-104	12/01/99	0.80	60	10	NA	2740	3,600	4.4	<0.10	NA
	03/01/00	0.61	25	215	66	4756	4,700	3.9	<0.10	990
	06/01/00	0.44	30	115	64	1958	4,100	3	<0.50	930
	09/01/00	0.52	40	75	NA	758	3,000	1.8	<0.10	NA
	12/01/00	1.00	60	25	NA	NA	NA	NA	NA	NA
	03/01/01	0.50	40	57	NA	NA	NA	NA	NA	NA
	06/01/01	0.23	40	170	NA	NA	NA	NA	NA	NA
	09/04/01	0.24	50	65	NA	NA	NA	NA	NA	NA
	12/03/01	0.23	50	124	NA	NA	NA	NA	NA	NA

Table B-3
Historic Natural Attenuation Parameters
Blue Lake Belting & Leather Works, Blue Lake, California

Well Location	Sampling Date	DO ¹ (ppm) ²	DCO ₂ ³ (ppm)	ORP ⁴ (mV) ⁵	Alkalinity (mg/L CaCO ₃) ⁶	Dissolved Methane (ug/L) ⁷	Dissolved Iron (ug/L)	Sulfate (mg/L) ⁸	Nitrate (mg/L)	Dissolved Manganese (ug/L)
MW-104 (cont'd)	03/01/02	0.35	35	167	NA	NA	NA	NA	NA	NA
	06/03/02	0.51	30	141	NA	NA	NA	NA	NA	NA
	09/03/02	0.26	40	143	NA	NA	NA	NA	NA	NA
	12/02/02	0.48	40	187	NA	NA	NA	NA	NA	NA
	03/03/03	0.75	30	241	NA	NA	NA	NA	NA	NA
	06/02/03	1.25	55	265	NA	NA	NA	NA	NA	NA
	09/02/03	1.13	65	238	NA	NA	NA	NA	NA	NA
	12/01/03	0.56	40	278	NA	NA	NA	NA	NA	NA
	03/01/04	0.79	30	272	NA	NA	NA	NA	NA	NA
	06/01/04	0.62	110	51	NA	NA	NA	NA	NA	NA
	09/02/04	0.58	20	34	NA	NA	NA	NA	NA	NA
	12/01/04	1.60	30	75	NA	NA	NA	NA	NA	NA
	03/01/05	8.12	20	90	NA	NA	NA	NA	NA	NA
	06/01/05	0.74	35	37	NA	NA	NA	NA	NA	NA
	09/01/05	0.76	20	-68	NA	NA	NA	NA	NA	NA
	12/05/05	2.54	10	270	NA	NA	NA	NA	NA	NA
	12/01/99	0.77	70	5	NA	122	2,100	4.3	<0.10	NA
MW-105	03/01/00	1.76	20	320	59	11.2	420	6.6	0.88	470
	06/01/00	1.45	20	265	36	18.9	440	5.9	0.59	160
	09/01/00	0.48	NA	30	NA	43.1	530	3.7	0.25	NA
	12/01/00	0.98	70	-15	NA	NA	NA	NA	NA	NA
	03/01/01	0.77	20	99	NA	NA	NA	NA	NA	NA
	06/01/01	0.94	30	140	NA	NA	NA	NA	NA	NA
	09/04/01	0.21	70	103	NA	NA	NA	NA	NA	NA
	12/03/01	0.42	50	124	NA	NA	NA	NA	NA	NA
	03/01/02	0.95	20	179	NA	NA	NA	NA	NA	NA
	06/03/02	1.19	25	145	NA	NA	NA	NA	NA	NA
	09/03/02	0.28	100	165	NA	NA	NA	NA	NA	NA

Table B-3
Historic Natural Attenuation Parameters
Blue Lake Belting & Leather Works, Blue Lake, California

Well Location	Sampling Date	DO ¹ (ppm) ²	DCO ₂ ³ (ppm)	ORP ⁴ (mV) ⁵	Alkalinity (mg/L CaCO ₃) ⁶	Dissolved Methane (ug/L) ⁷	Dissolved Iron (ug/L)	Sulfate (mg/L) ⁸	Nitrate (mg/L)	Dissolved Manganese (ug/L)
MW-105 (cont'd)	12/02/02	0.58	50	202	NA	NA	NA	NA	NA	NA
	03/03/03	1.40	20	252	NA	NA	NA	NA	NA	NA
	06/02/03	1.64	45	254	NA	NA	NA	NA	NA	NA
	09/02/03	1.10	40	232	NA	NA	NA	NA	NA	NA
	12/01/03	3.80	35	273	NA	NA	NA	NA	NA	NA
	03/01/04	0.72	15	278	NA	NA	NA	NA	NA	NA
	06/01/04	1.23	20	183	NA	NA	NA	NA	NA	NA
	09/02/04	0.64	50	75	NA	NA	NA	NA	NA	NA
	12/01/04	1.78	45	45	NA	NA	NA	NA	NA	NA
	03/01/05	0.88	35	165	NA	NA	NA	NA	NA	NA
	06/01/05	0.99	15	162	NA	NA	NA	NA	NA	NA
	09/01/05	0.79	30	-19	NA	NA	NA	NA	NA	NA
	12/05/05	1.61	80	274	NA	NA	NA	NA	NA	NA
	12/01/99	0.72	40	2	NA	<7.89	<100	7.9	0.61	NA
MW-106	03/01/00	0.77	30	105	48	<7.89	1,100	7.5	0.59	960
	06/01/00	0.55	30	215	36	<7.89	<100	7.3	0.58	270
	09/01/00	0.65	NA	160	NA	<7.89	<15	6.2	0.37	NA
	12/01/00	1.45	60	140	NA	NA	NA	NA	NA	NA
	03/01/01	1.28	30	125	NA	NA	NA	NA	NA	NA
	06/01/01	0.96	30	49	NA	NA	NA	NA	NA	NA
	09/04/01	0.30	25	40	NA	NA	NA	NA	NA	NA
	12/03/01	0.47	35	67	NA	NA	NA	NA	NA	NA
	03/01/02	0.55	30	152	NA	NA	NA	NA	NA	NA
	06/03/02	0.84	30	79	NA	NA	NA	NA	NA	NA
	09/03/02	0.47	35	94	NA	NA	NA	NA	NA	NA
	12/02/02	2.37	35	141	NA	NA	NA	NA	NA	NA
	03/03/03	0.80	30	218	NA	NA	NA	NA	NA	NA
	06/02/03	1.76	35	219	NA	NA	NA	NA	NA	NA

Table B-3

**Historic Natural Attenuation Parameters
Blue Lake Belting & Leather Works, Blue Lake, California**

Well Location	Sampling Date	DO ¹ (ppm) ²	DCO ₂ ³ (ppm)	ORP ⁴ (mV) ⁵	Alkalinity (mg/L CaCO ₃) ⁶	Dissolved Methane (ug/L) ⁷	Dissolved Iron (ug/L)	Sulfate (mg/L) ⁸	Nitrate (mg/L)	Dissolved Manganese (ug/L)
MW-106 (cont'd)	09/02/03	1.91	30	145	NA	NA	NA	NA	NA	NA
	12/01/03	0.90	30	232	NA	NA	NA	NA	NA	NA
	03/01/04	1.46	15	254	NA	NA	NA	NA	NA	NA
	06/01/04	1.42	60	138	NA	NA	NA	NA	NA	NA
	09/02/04	1.25	25	113	NA	NA	NA	NA	NA	NA
	12/01/04	2.23	45	176	NA	NA	NA	NA	NA	NA
	03/01/05	1.43	30	68	NA	NA	NA	NA	NA	NA
	06/01/05	1.34	15	120	NA	NA	NA	NA	NA	NA
	09/01/05	0.92	20	167	NA	NA	NA	NA	NA	NA
	12/05/05	2.32	30	205	NA	NA	NA	NA	NA	NA
MW-3	03/01/05	0.74	45	27	NA	NA	NA	NA	NA	NA
	06/01/05	0.73	30	4	NA	NA	NA	NA	NA	NA
	09/01/05	0.75	40	-48	NA	NA	NA	NA	NA	NA
	12/05/05	1.75	30	259	NA	NA	NA	NA	NA	NA

1. DO: Dissolved Oxygen, field measured using portable instrumentation
2. ppm: Measurement concentration, in parts per million
3. DCO₂: Dissolved Carbon Dioxide, field measured using a field test kit
4. ORP: Oxidation-Reduction Potential measured using portable instrumentation
5. mV: millivolts
6. mg/L CaCO₃: milligrams per Liter of Calcium Carbonate
7. ug/L: micrograms per Liter
8. mg/L: milligrams per Liter
9. NA: Not Measured or Not Available
10. <: Denotes a value that is "less than" the method detection limit

Table B-4
Ozone System Monitoring
Blue Lake Belting & Leather Works, Blue Lake, California

Date	Total System Run Time ¹ (hours:minutes)	Ozone Flow (scfh) ²	Ozone Pressure (psi) ³	Electric Meter (kWhr) ⁴	SW-1			SW-2		
					Flow (scfh)	Pressure (psi)	Total Run Time ¹ (hours:minutes)	Programmed Run Time (hours:minutes)	Flow (scfh)	Pressure (psi)
12/21/04	2:52	8	9	0	1.3	8	0:39	0:00	1.0	16
12/31/04	221:33	5	13	397	1.0	20	0:39	0:00	0.8	25
01/07/05	389:27	5	12.5	520	NM	22	0:40	0:00	NM	30
01/17/05	630:58	5	12.5	830	0.9	16	0:41	0:00	0.9	15
01/21/05	725:30	5	13	NM	0.9	10	0:43	0:00	0.9	11
01/28/05	893:11	5	13.5	1286	1.1	7	0:44	0:00	0.8	17
02/03/05	1040:48	9.5	9.5	1381	1.1	7	0:49	0:05	0.8	17
03/01/05	1655:53	9	8.5	2185	1.2	6.5	41:54	0:05	1.1	12
04/15/05	2730:03	5	11	3536	1.2	5	113:27	0:05	1.2	7
05/12/05	3365:53	5.5	11	4323	1.2	5	155:49	0:05	1.1	7
06/03/05	3886:14	9	8.5	4968	1.2	5	190:31	0:05	1.1	7.5
07/08/05	4727:06	4	12	5968	1.2	4	246:37	0:05	1.0	8
07/29/05	5234:52	7	8	6511	1.2	6	280:29	0:05	1.2	6
08/18/05	5711:23	9	7	6982	1.2	5	312:15	0:05	1.1	7
09/13/05	6184:32	8	9	NM	1.2	6	343:51	0:05	1.2	7
10/28/05	7274:47	9	5	8598	1.2	6	415:37	0:05	1.2	7
11/16/05	7752:34	9	3.5	8928	1.2	9	445:54	0:05	1.1	11
12/19/05	8254:13	9	9	9404	1.1	10	479:50	0:05	1.0	10

1. Total run times are adjusted from the field data sheets to reflect true total run time.

2. scfh: standard cubic feet per hour

3. psi: pounds per square inch

4. kWhr: kilowatt hour

Table B-4
Ozone System Monitoring
Blue Lake Belting & Leather Works, Blue Lake, California

Date	SW-3			SW-4				
	Flow (scfh) ²	Pressure (psi) ³	Total Run Time ¹ (hours:minutes)	Programmed Run Time (hours:minutes)	Flow (scfh)	Pressure (psi)	Total Run Time ¹ (hours:minutes)	Programmed Run Time (hours:minutes)
12/21/04	1.1	14	0:15	0:05	1.1	12	0:16	0:05
12/31/04	1.3	20	44:15	0:05	1.1	20	44:06	0:05
01/07/05	NM	19	77:55	0:05	NM	19	77:37	0:05
01/17/05	1.1	7	126:10	0:05	1.1	8	125:59	0:05
01/21/05	1.1	5	145:06	0:05	1.1	7	144:51	0:05
01/28/05	1.1	8	178:40	0:05	1.1	8	178:22	0:05
02/03/05	1.1	7	208:32	0:10	1.1	7	207:47	0:10
03/01/05	1.2	9	290:31	0:10	1.1	9	289:38	0:10
04/15/05	1.2	8	433:41	0:10	1.1	7	432:58	0:10
05/12/05	1.1	8	518:32	0:10	1.1	7	517:49	0:10
06/03/05	1.05	8	587:56	0:10	1.1	7	587:13	0:10
07/08/05	1.0	8	700:08	0:10	1.0	7	699:25	0:10
07/29/05	1.1	8	767:52	0:10	1.1	8	767:09	0:10
08/18/05	1.0	10	831:24	0:10	1.1	9	830:41	0:10
09/13/05	1.0	10	894:36	0:10	1.1	8:25	893:53	0:10
10/28/05	1.0	10	1040:05	0:10	1.1	9	1040:05	0:10
11/16/05	1.1	10	1107:00	0:10	1.1	10	1106:00	0:10
12/19/05	1.1	10	1174:00	0:10	1.0	11	1173:00	0:10

1. Total run times are adjusted from the field data sheets to reflect true total run time.

2. scfh: standard cubic feet per hour

3. psi: pounds per square inch

Table B-4
Ozone System Monitoring
Blue Lake Belting & Leather Works, Blue Lake, California

Date	SW-5				SW-6			
	Flow (scfh) ²	Pressure (psi) ³	Total Run Time ¹ (hours:minutes)	Programmed Run Time (hours:minutes)	Flow (scfh)	Pressure (psi)	Total Run Time ¹ (hours:minutes)	Programmed Run Time (hours:minutes)
12/21/04	1.1	14	0:14	0:05	1.0	16	0:11	0:05
12/31/04	1.2	20	43:56	0:05	1.2	20	43:42	0:05
01/07/05	NM	19	77:27	0:05	NM	19	77:18	0:05
01/17/05	1.1	8	125:48	0:05	1.1	8	125:35	0:05
01/21/05	1.1	9	144:39	0:05	1.1	8	144:30	0:05
01/28/05	1.1	9	178:10	0:05	1.1	9	178:01	0:05
02/03/05	1.1	9	207:31	0:10	1.1	9	207:22	0:10
03/01/05	1.1	10	289:34	0:10	1.1	11	289:22	0:10
04/15/05	1.2	8	432:44	0:10	1.0	10	432:32	0:10
05/12/05	1.1	7	517:35	0:10	0.9	10	517:23	0:10
06/03/05	1.2	4.5	586:59	0:10	1.0	10	586:47	0:10
07/08/05	1.2	4	699:11	0:10	1.0	9	698:59	0:10
07/29/05	1.2	7	766:55	0:10	1.1	9	766:43	0:10
08/18/05	1.1	8	830:27	0:10	0.9	11	830:15	0:10
09/13/05	1.1	8	893:39	0:10	1.0	9.75	893:27	0:10
10/28/05	1.1	9	1040:05	0:10	1.0	14	1040:05	0:10
11/16/05	1.1	10	1105:00	0:10	1.00	14	1105:00	0:10
12/19/05	1.0	11	1172:00	0:10	0.85	14	1171:00	0:10

1. Total run times are adjusted from the field data sheets to reflect true total run time.

2. scfh: standard cubic feet per hour

3. psi: pounds per square inch

Table B-4
Ozone System Monitoring
Blue Lake Belting & Leather Works, Blue Lake, California

Date	SW-7			SW-8				
	Flow (scfh) ²	Pressure (psi) ³	Total Run Time ¹ (hours:minutes)	Programmed Run Time (hours:minutes)	Flow (scfh)	Pressure (psi)	Total Run Time ¹ (hours:minutes)	Programmed Run Time (hours:minutes)
12/21/04	0.9	18	0:09	0:00	1.1	15	0:16	0:00
12/31/04	0.9	22	0:09	0:00	0.8	23	0:16	0:00
01/07/05	NM	21	0:10	0:00	NM	21	0:17	0:00
01/17/05	0.9	15	0:11	0:00	0.8	16	0:18	0:00
01/21/05	0.9	16	0:12	0:00	0.9	16	0:19	0:00
01/28/05	0.9	15	0:13	0:00	1.1	10	0:20	0:00
02/03/05	0.9	17	0:15	0:05	1.0	14	0:22	0:05
03/01/05	1.0	14	41:16	0:05	1.0	13	41:23	0:05
04/15/05	1.1	8	112:51	0:05	1.3	2:25	112:58	0:05
05/12/05	1.1	8	155:17	0:05	1.3	3	155:19	0:05
06/03/05	1.1	7.5	189:53	0:05	1.2	3	190:00	0:05
07/08/05	1.0	8	245:51	0:05	1.3	3	245:56	0:05
07/29/05	1.0	11	279:38	0:05	1.3	4	279:43	0:05
08/18/05	0.9	11	311:24	0:05	1.2	5	311:28	0:05
09/13/05	1.1	10	342:45	0:05	1.2	6	342:48	0:05
10/28/05	1.0	12	414:31	0:05	1.2	6	414:35	0:05
11/16/05	1.1	11	444:46	0:05	1.2	6	444:48	0:05
12/19/05	1.0	12	478:07	0:05	1.2	6	478:09	0:05

1. Total run times are adjusted from the field data sheets to reflect true total run time.

2. scfh: standard cubic feet per hour

3. psi: pounds per square inch

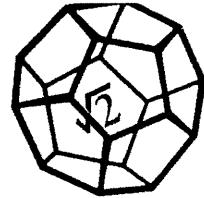
Table B-4
Ozone System Monitoring
Blue Lake Belting & Leather Works, Blue Lake, California

Date	SW-9			SW-10			Programmed Run Time (hours:minutes)
	Flow (scfh) ²	Pressure (psi) ³	Total Run Time ¹ (hours:minutes)	Programmed Run Time (hours:minutes)	Flow (scfh)	Pressure (psi)	
12/21/04	1.3	7	0:12	0:00	1.1	15	0:21
12/31/04	1.2	20	0:12	0:00	1.2	20	43:59
01/07/05	NM	15	0:13	0:00	NM	15	77:30
01/17/05	1.1	6	0:14	0:00	1.1	6	125:41
01/21/05	1.1	6	0:15	0:00	1.1	6	144:32
01/28/05	1.2	7	0:16	0:00	1.1	6	178:01
02/03/05	1.0	6	0:18	0:05	1.1	8	207:26
03/01/05	1.2	8	41:18	0:05	1.1	12	289:29
04/15/05	1.2	6	112:53	0:05	1.2	7	432:29
05/12/05	1.1	6	155:19	0:05	1.1	8	517:21
06/03/05	1.1	6	189:55	0:05	1.0	7.5	586:45
07/08/05	1.2	4	245:51	0:05	1.0	8	698:57
07/29/05	1.2	6	279:38	0:05	1.1	8	766:41
08/18/05	1.1	7	311:26	0:05	1.1	9	830:13
09/13/05	1.1	8	342:42	0:05	1.1	8	893:25
10/28/05	1.1	8	414:28	0:05	1.1	9	1040:05
11/16/05	1.2	8	444:39	0:05	1.0	11	1104:00
12/19/05	1.1	9	478:00	0:05	1.0	11	1171:00

1. Total run times are adjusted from the field data sheets to reflect true total run time.
2. scfh: standard cubic feet per hour
3. psi: pounds per square inch

Appendix C

Laboratory Analytical Reports



**NORTH COAST
LABORATORIES LTD.**

December 19, 2005

SHN Consulting Engineers and Geologists
812 West Wabash Avenue
Eureka, CA 95501

Order No.: 0512138
Invoice No.: 55068
PO No.:
ELAP No. 1247-Expires July 2006

Attn: Mike Foget

RE: 097309, Blue Lake Belting and Leather

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	MW-106
02A	MW-101
03A	MW-102
04A	MW-105
05A	MW-103
06A	MW-104
07A	M-3

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr.
Laboratory Director

CLIENT: SHN Consulting Engineers and Geologists
Project: 097309, Blue Lake Belting and Leather
Lab Order: 0512138

CASE NARRATIVE**TPH as Gasoline:**

Samples MW-106, MW-103, MW-104 and M-3 appear to be similar to gasoline but certain peak ratios are not that of a fresh gasoline standard. The reported results represent the amount of material in the gasoline range.

The gasoline value for sample MW-105 includes the reported gasoline components in addition to other peaks in the gasoline range.

BTEX:

Some reporting limits were raised for sample MW-105 due to matrix interference.

Sample MW-105 was diluted and the reporting limits raised additionally due to matrix interference.

The surrogate recovery for sample MW-103 was outside of the acceptance limits. The surrogate recoveries for the quality control samples were within the acceptance limits. This indicates that the high surrogate recovery may be due to matrix effects from the sample.

Date: 19-Dec-05
WorkOrder: 0512138

ANALYTICAL REPORT

Client Sample ID: MW-106

Received: 12/5/05

Collected: 12/5/05 11:55

Lab ID: 0512138-01A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Benzene	4.4	0.50	µg/L	1.0		12/15/05
Toluene	3.7	0.50	µg/L	1.0		12/15/05
Ethylbenzene	1.6	0.50	µg/L	1.0		12/15/05
m,p-Xylene	1.1	0.50	µg/L	1.0		12/15/05
o-Xylene	ND	0.50	µg/L	1.0		12/15/05
Surrogate: Cis-1,2-Dichloroethylene	89.0	85-115	% Rec	1.0		12/15/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	110	50	µg/L	1.0		12/15/05

Client Sample ID: MW-101

Received: 12/5/05

Collected: 12/5/05 12:30

Lab ID: 0512138-02A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Benzene	ND	0.50	µg/L	1.0		12/15/05
Toluene	ND	0.50	µg/L	1.0		12/15/05
Ethylbenzene	ND	0.50	µg/L	1.0		12/15/05
m,p-Xylene	ND	0.50	µg/L	1.0		12/15/05
o-Xylene	ND	0.50	µg/L	1.0		12/15/05
Surrogate: Cis-1,2-Dichloroethylene	89.3	85-115	% Rec	1.0		12/15/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		12/15/05

Date: 19-Dec-05
WorkOrder: 0512138

ANALYTICAL REPORT

Client Sample ID: MW-102
Lab ID: 0512138-03A

Received: 12/5/05

Collected: 12/5/05 13:05

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Benzene	ND	0.50	µg/L	1.0		12/15/05
Toluene	ND	0.50	µg/L	1.0		12/15/05
Ethylbenzene	ND	0.50	µg/L	1.0		12/15/05
m,p-Xylene	ND	0.50	µg/L	1.0		12/15/05
o-Xylene	ND	0.50	µg/L	1.0		12/15/05
Surrogate: Cis-1,2-Dichloroethylene	86.2	85-115	% Rec	1.0		12/15/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		12/15/05

Client Sample ID: MW-105

Received: 12/5/05

Collected: 12/5/05 13:35

Lab ID: 0512138-04A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Benzene	7.2	5.0	µg/L	10		12/15/05
Toluene	ND	70	µg/L	10		12/15/05
Ethylbenzene	8.3	0.50	µg/L	1.0		12/15/05
m,p-Xylene	4.6	0.50	µg/L	1.0		12/15/05
o-Xylene	ND	3.5	µg/L	1.0		12/15/05
Surrogate: Cis-1,2-Dichloroethylene	98.9	85-115	% Rec	10		12/15/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	2,600	500	µg/L	10		12/15/05

Date: 19-Dec-05
WorkOrder: 0512138

ANALYTICAL REPORT

Client Sample ID: MW-103
Lab ID: 0512138-05A

Received: 12/5/05

Collected: 12/5/05 14:15

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Benzene	70	5.0	µg/L	10		12/15/05
Toluene	81	5.0	µg/L	10		12/15/05
Ethylbenzene	87	5.0	µg/L	10		12/15/05
m,p-Xylene	110	5.0	µg/L	10		12/15/05
o-Xylene	46	5.0	µg/L	10		12/15/05
Surrogate: Cis-1,2-Dichloroethylene	122	85-115	% Rec	10		12/15/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	3,900	500	µg/L	10		12/15/05

Client Sample ID: MW-104

Received: 12/5/05

Collected: 12/5/05 15:25

Lab ID: 0512138-06A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Benzene	59	50	µg/L	100		12/15/05
Toluene	100	50	µg/L	100		12/15/05
Ethylbenzene	280	50	µg/L	100		12/15/05
m,p-Xylene	500	50	µg/L	100		12/15/05
o-Xylene	53	50	µg/L	100		12/15/05
Surrogate: Cis-1,2-Dichloroethylene	109	85-115	% Rec	100		12/15/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	10,000	500	µg/L	10		12/15/05

Date: 19-Dec-05
WorkOrder: 0512138

ANALYTICAL REPORT

Client Sample ID: M-3
Lab ID: 0512138-07A

Received: 12/5/05

Collected: 12/5/05 14:50

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Benzene	180	50	µg/L	100		12/15/05
Toluene	1,600	200	µg/L	400		12/15/05
Ethylbenzene	480	50	µg/L	100		12/15/05
m,p-Xylene	1,400	50	µg/L	100		12/15/05
o-Xylene	500	50	µg/L	100		12/15/05
Surrogate: Cis-1,2-Dichloroethylene	101	85-115	% Rec	100		12/15/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	14,000	500	µg/L	10		12/15/05

North Coast Laboratories, Ltd.

Date: 19-Dec-05

CLIENT: SHN Consulting Engineers and Geologists**Work Order:** 0512138**Project:** 097309, Blue Lake Belting and Leather**QC SUMMARY REPORT**

Method Blank

Sample ID: MB-12/14/05		Batch ID: R38659		Test Code: BTXEW		Units: µg/L		Analysis Date: 12/15/05 4:48:11 AM		Prep Date:	
Client ID:		Run ID:		ORG C8	_051214C	SeqNo:		556477		% RPD	RPD Limit
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	0.50									
o-Xylene	ND	0.50									
Cis-1,2-Dichloroethylene	0.863	0.10	1.00	0	0	86.3%	85	115	0		
Sample ID: MB-12/14/05		Batch ID: R38657		Test Code: TPHC GW		Units: µg/L		Analysis Date: 12/15/05 4:48:11 AM		Prep Date:	
Client ID:		Run ID:		ORG C8	_051214B	SeqNo:		556443		% RPD	RPD Limit
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Gas (C6-C14)	ND	50									

Qualifiers:

ND - Not Detected at the Reporting Limit

I - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

North Coast Laboratories, Ltd.

Date: 19-Dec-05

CLIENT: SHN Consulting Engineers and Geologists

Work Order: 0512138

Project: 097309, Blue Lake Belting and Leather

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID: LCS-05793		Batch ID: R38659		Test Code: BTXEW		Units: µg/L		Analysis Date: 12/15/05 12:52:00 AM		Prep Date:	
Client ID:		Run ID: ORGC8_051214C						SeqNo: 556474			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	5.104	0.50	5.00	0	102%	85	115		0		
Toluene	5.184	0.50	5.00	0	104%	85	115		0		
Ethylbenzene	5.218	0.50	5.00	0	104%	85	115		0		
m,p-Xylene	10.17	0.50	10.0	0	102%	85	115		0		
o-Xylene	4.986	0.50	5.00	0	99.7%	85	115		0		
Cis-1,2-Dichloroethylene	1.07	0.10	1.00	0	107%	85	115		0		
Sample ID: LCSD-05793		Batch ID: R38659		Test Code: BTXEW		Units: µg/L		Analysis Date: 12/15/05 1:25:50 AM		Prep Date:	
Client ID:		Run ID: ORGC8_051214C						SeqNo: 556475			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	5.052	0.50	5.00	0	101%	85	115	5.10	1.02%	15	
Toluene	5.147	0.50	5.00	0	103%	85	115	5.18	0.703%	15	
Ethylbenzene	5.158	0.50	5.00	0	103%	85	115	5.22	1.15%	15	
m,p-Xylene	10.14	0.50	10.0	0	101%	85	115	10.2	0.215%	15	
o-Xylene	5.012	0.50	5.00	0	100%	85	115	4.99	0.515%	15	
Cis-1,2-Dichloroethylene	1.06	0.10	1.00	0	106%	85	115	1.07	0.948%	15	
Sample ID: LCS-05794		Batch ID: R38657		Test Code: TPHCGW		Units: µg/L		Analysis Date: 12/15/05 2:33:22 AM		Prep Date:	
Client ID:		Run ID: ORGC8_051214B						SeqNo: 556440			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	481.0	50	500	0	96.2%	85	115		0		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0512138
Project: 097309, Blue Lake Belting and Leather

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID: LCSD-05794	Batch ID: R38657	Test Code: TPHC GW	Units: µg/l	Analysis Date: 12/15/05 3:07:07 AM			Prep Date:				
Client ID:	Run ID:	ORG C8_051214B		SeqNo:	556441						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Gas (C6-C14)	485.5	50	500	0	97.1%	85	115	481	0.946%	15	

Qualifiers:

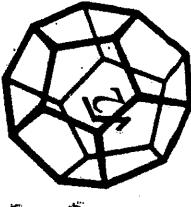
ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits



NORTH COAST
LABORATORIES LTD.

6680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

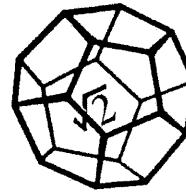
Chain of Custody

Attention: Mike Faget
Results & Invoice to: SHN
Address: 812 West Wabash Avenue
Phone: Eureka, CA 95501 441-8855
Copies of Report to: _____
Sampler (Sign & Print): Aaron Melvold, A. D. Melvold

LAB ID	SAMPLE ID	DATE	TIME	MATRIX
	MW-104	12-5-05	1155	GW
	MW-101		1230	
	MW-102		1305	
	MW-105		1335	
	MW-103		1415	
	MW-104		1525	
	M-3		1450	

LABORATORY NUMBER:			
TAT:	<input type="checkbox"/> 24 Hr	<input type="checkbox"/> 48 Hr	<input type="checkbox"/> 5 Day
STD (2-3 Wk)		<input type="checkbox"/> Other:	_____
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES			
REPORTING REQUIREMENTS:		State Forms <input type="checkbox"/>	
Preliminary:	<input checked="" type="checkbox"/> FAX	<input type="checkbox"/> Verbal	By: _____
Final Report:	<input type="checkbox"/> FAX	<input type="checkbox"/> Verbal	By: _____
CONTAINER CODES: 1—1/2 gal. pt; 2—250 ml pt; 3—500 ml pt; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other			
PRESERVATIVE CODES: a—HNO ₃ ; b—HCl; c—H ₂ SO ₄ ; d—Na ₂ S ₂ O ₃ ; e—NaOH; f—C ₂ H ₅ OCl; g—other			
SAMPLE CONDITION/SPECIAL INSTRUCTIONS			
<i>EDF</i>			
<i>Global IP# T0602300013</i>			
<i>No tube on report</i>			
<i>Cold intact</i>			
SAMPLE DISPOSAL		<input checked="" type="checkbox"/> NCL Disposal of Non-Contaminated	
		<input type="checkbox"/> Return	
		<input type="checkbox"/> Pickup	
CHAIN OF CUSTODY SEALS Y/N/NA <input type="checkbox"/>			
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus (Hand			

***MATRIX**: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; Se=Soil; O=Other.



**NORTH COAST
LABORATORIES LTD.**

December 12, 2005

Pvt. cust. paying on pickup

Order No.: 0512122

Invoice No.: 54926

PO No.: TASK 3031

ELAP No. 1247-Expires July 2006

Attn: Pat Folkins

RE: 3888.01, BLUE LAKE MARKET

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	3888-MW1-W
02A	3888-MW2-W
03A	3888-MW5-W
04A	3888-QCTB-W

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr.
Laboratory Director

CLIENT: Pvt. cust. paying on pickup
Project: 3888.01, BLUE LAKE MARKET
Lab Order: 0512122

CASE NARRATIVE**TPH as Gasoline:**

Samples 3888-MW2-W and 3888-MW5-W appear to be similar to gasoline but certain peak ratios are not that of a fresh gasoline standard. The reported results represent the amount of material in the gasoline range.

The gasoline value for sample 3888-MW1-W includes the reported gasoline components in addition to other peaks in the gasoline range.

BTEX:

Some reporting limits were raised for samples 3888-MW1-W and 3888-MW5-W due to matrix interference.

The surrogate for sample 3888-MW1-W could not be quantified due to a large amount of early eluting material.

MTBE and benzene in sample 3888-MW2-W were reported as ND with a dilution due to matrix interference.

The laboratory control sample duplicate (LCSD) recovery was below the lower acceptance limit for MTBE. The laboratory control sample (LCS) recovery was within the acceptance limits; therefore, the data were accepted.

The relative percent difference (RPD) for the laboratory control samples was above the upper acceptance limit for MTBE. This indicates that the results could be variable. Since there were no detectable levels of the analyte in the samples, the data were accepted.

Date: 12-Dec-05
WorkOrder: 0512122

ANALYTICAL REPORT

Client Sample ID: 3888-MW1-W
Lab ID: 0512122-01A

Received: 12/2/05

Collected: 12/1/05 0:00

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	50	µg/L	1.0		12/10/05
Benzene	9.1	0.50	µg/L	1.0		12/10/05
Toluene	ND	15	µg/L	1.0		12/10/05
Ethylbenzene	3.4	0.50	µg/L	1.0		12/10/05
m,p-Xylene	2.4	0.50	µg/L	1.0		12/10/05
o-Xylene	ND	4.0	µg/L	1.0		12/10/05
Surrogate: Cis-1,2-Dichloroethylene	NQ	85-115	% Rec	1.0		12/10/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	1,300	50	µg/L	1.0		12/10/05

Client Sample ID: 3888-MW2-W

Received: 12/2/05

Collected: 12/1/05 0:00

Lab ID: 0512122-02A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	30	µg/L	10		12/10/05
Benzene	ND	5.0	µg/L	10		12/10/05
Toluene	6.9	5.0	µg/L	10		12/10/05
Ethylbenzene	63	5.0	µg/L	10		12/10/05
m,p-Xylene	160	5.0	µg/L	10		12/10/05
o-Xylene	7.0	5.0	µg/L	10		12/10/05
Surrogate: Cis-1,2-Dichloroethylene	91.0	85-115	% Rec	10		12/10/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	1,500	500	µg/L	10		12/10/05

Date: 12-Dec-05
WorkOrder: 0512122

ANALYTICAL REPORT

Client Sample ID: 3888-MW5-W
Lab ID: 0512122-03A

Received: 12/2/05

Collected: 12/1/05 0:00

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	25	µg/L	1.0		12/10/05
Benzene	27	5.0	µg/L	10		12/10/05
Toluene	12	5.0	µg/L	10		12/10/05
Ethylbenzene	42	5.0	µg/L	10		12/10/05
m,p-Xylene	24	5.0	µg/L	10		12/10/05
o-Xylene	ND	7.0	µg/L	1.0		12/10/05
Surrogate: Cis-1,2-Dichloroethylene	89.8	85-115	% Rec	10		12/10/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	1,400	50	µg/L	1.0		12/10/05

Client Sample ID: 3888-QCTB-W

Received: 12/2/05

Collected: 12/1/05 0:00

Lab ID: 0512122-04A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	3.0	µg/L	1.0		12/10/05
Benzene	ND	0.50	µg/L	1.0		12/10/05
Toluene	ND	0.50	µg/L	1.0		12/10/05
Ethylbenzene	ND	0.50	µg/L	1.0		12/10/05
m,p-Xylene	ND	0.50	µg/L	1.0		12/10/05
o-Xylene	ND	0.50	µg/L	1.0		12/10/05
Surrogate: Cis-1,2-Dichloroethylene	87.3	85-115	% Rec	1.0		12/10/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		12/10/05

Page 2 of 2

North Coast Laboratories, Ltd.

Date: 12-Dec-05

CLIENT: Pvt. cust. paying on pickup
Work Order: 0512122
Project: 3888.01, BLUE LAKE MARKET

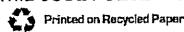
QC SUMMARY REPORT

Method Blank

Sample ID: MB12/9/05	Batch ID: R38521	Test Code: BTXEW	Units: µg/L	Analysis Date 12/10/05 1:20:54 AM	Prep Date:
Client ID:		Run ID: ORGC8_051209B		SeqNo: 554663	
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec
MTBE	ND	3.0			
Benzene	ND	0.50			
Toluene	ND	0.50			
Ethylbenzene	ND	0.50			
m,p-Xylene	ND	0.50			
o-Xylene	0.938	0.10	1.00	0	93.8%
Cis-1,2-Dichloroethylene					85
					115
					0

Sample ID: MB12/9/05	Batch ID: R38519	Test Code: TPHC GW	Units: µg/L	Analysis Date 12/10/05 1:20:54 AM	Prep Date:
Client ID:		Run ID: ORGC8_051209A		SeqNo: 554643	
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec
TPHC Gas (C6-C14)	ND	50			

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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

NORTH COAST LABORATORIES

North Coast Laboratories, Ltd.

Date: 12-Dec-05

CLIENT: Pvt. cust. paying on pickup
Work Order: 0512122
Project: 3888.01, BLUE LAKE MARKET

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QC SUMMARY REPORT

Laboratory Control Spike

Sample ID: LCS-05783		Batch ID: R38521		Test Code: BTXEW		Units: µg/L		Analysis Date 12/9/05 10:30:22 PM		Prep Date:		
Client ID:	Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
	MTBE	40.08	3.0	40.0	0	100%	85	115	85	0	0	
	Benzene	5.064	0.50	5.00	0	101%	85	115	85	0	0	
	Toluene	5.145	0.50	5.00	0	103%	85	115	85	0	0	
	Ethylbenzene	5.069	0.50	5.00	0	101%	85	115	85	0	0	
	m,p-Xylene	10.19	0.50	10.0	0	102%	85	115	85	0	0	
	o-Xylene	5.064	0.50	5.00	0	101%	85	115	85	0	0	
	NORTH COAST-1,2-Dichloroethylene	1.13	0.10	1.00	0	113%	85	115	85	0	0	
Sample ID: LCSD-05783		Batch ID: R38521		Test Code: BTXEW		Units: µg/L		Analysis Date 12/10/05 9:15:09 AM		Prep Date:		
Client ID:	Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
	MTBE	31.03	3.0	40.0	0	77.6%	85	115	40.1	25.5%	15	SR
	Benzene	4.738	0.50	5.00	0	94.8%	85	115	5.06	6.66%	15	
	Toluene	4.668	0.50	5.00	0	93.4%	85	115	5.14	9.72%	15	
	Ethylbenzene	4.666	0.50	5.00	0	93.3%	85	115	5.07	8.28%	15	
	m,p-Xylene	9.159	0.50	10.0	0	91.6%	85	115	10.2	10.7%	15	
	o-Xylene	4.497	0.50	5.00	0	89.9%	85	115	5.06	11.8%	15	
	Cis-1,2-Dichloroethylene	0.974	0.10	1.00	0	97.4%	85	115	1.13	14.6%	15	
Sample ID: LCS-05784		Batch ID: R38519		Test Code: TPHCGW		Units: µg/L		Analysis Date 12/9/05 11:38:43 PM		Prep Date:		
Client ID:	Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
	TPHC Gas (C6-C14)	478.9	50	500	0	95.8%	85	115	0	0	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

CLIENT: Pvt. cust. paying on pickup
Work Order: 0512122
Project: 388801, BLUE LAKE MARKET

Sample ID: LCSD-05784	Batch ID: R38519	Test Code: TPHCGW	Units: µg/L	Analysis Date: 12/10/05 9:49:02 AM	Prep Date:						
Client ID:	Run ID:	ORGCB_051209A		SeqNo:	554652						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
TPHC Gas (C6-C14)	490.3	50	500	0	98.1%	85	115	479	2.35%	15	

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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

